

AD-A074 619

AMMANN AND WHITNEY NEW YORK
SCIENTIFIC DIRECTOR'S REPORT OF ATOMIC WEAPON TESTS AT ENIWETOK--ETC(U)
NOV 51

F/G 18/3

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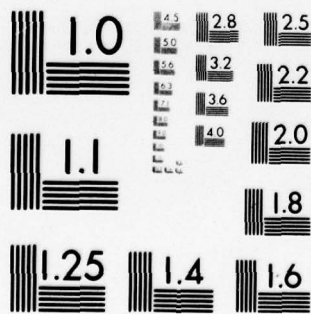
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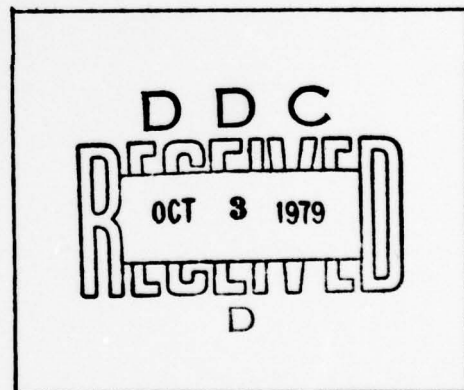
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WT-60(REF.) is divided into four parts as follows:

Part I - Pages 1 through 75

Part II - Pages 76 through 90

Part III - Pages 91 through 110

Part IV - Pages 111 through 130

Scientific Director's Report of Atomic Weapon Tests at Eniwetok, 1951

Annex 3.1

U. S. Army Structures

Appendix 2 As-built Construction

This material contains information affecting the national defense of the United States within the meaning of the espionage laws Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

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U. S. ARMY STRUCTURES

Appendix 2

As-built Construction

by

AMMANN & WHITNEY
Consulting Engineers

Approved by: SHERWOOD B. SMITH
Director, Program 3

Approved by: ALVIN C. GRAVES
Scientific Director

New York, New York

November 1951

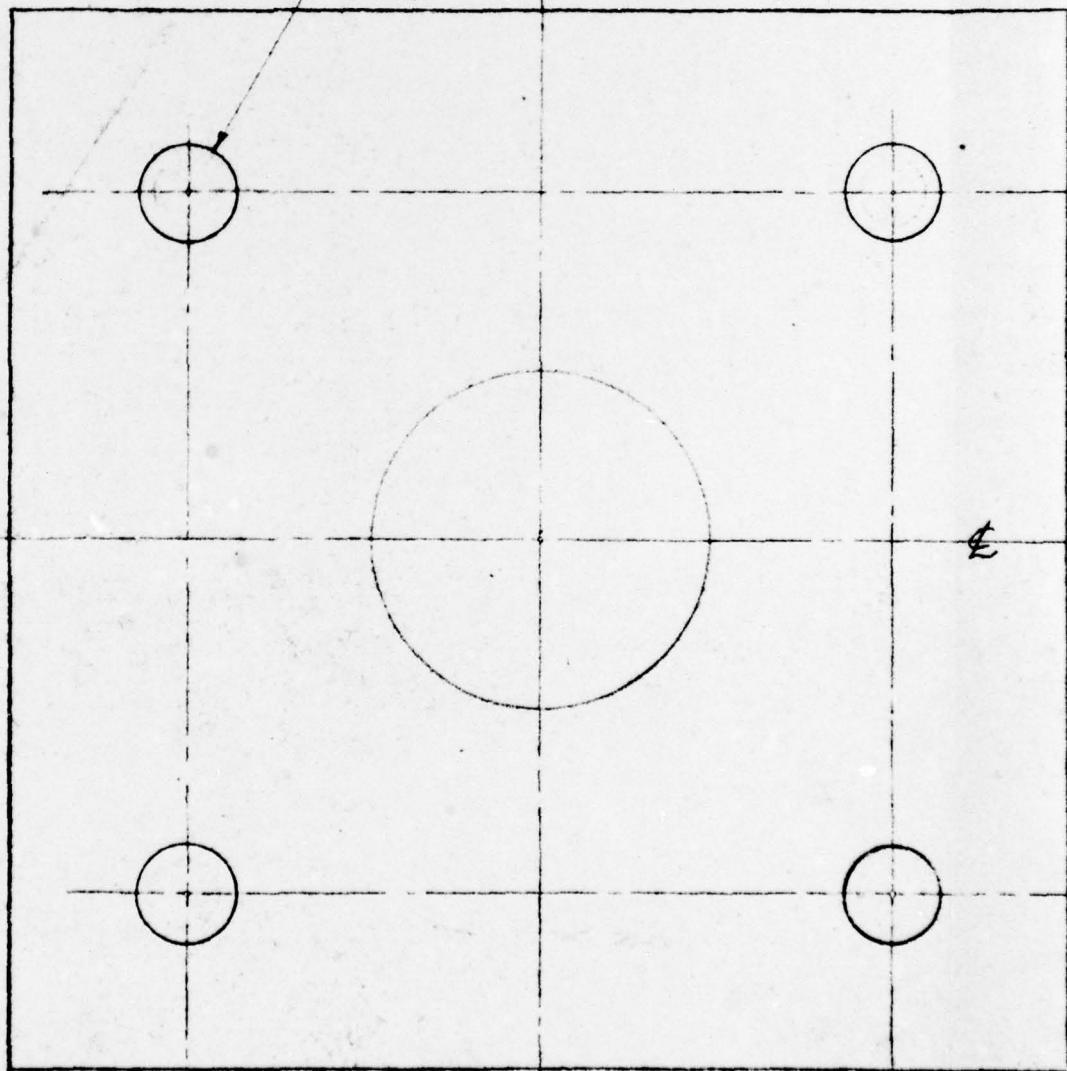
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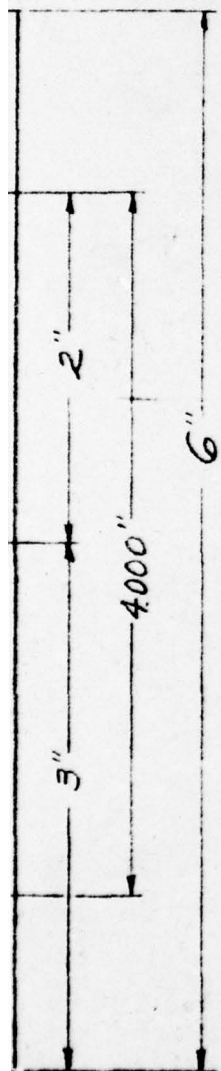
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8 HOLES - $\frac{7}{16}$ " DIA DRILL

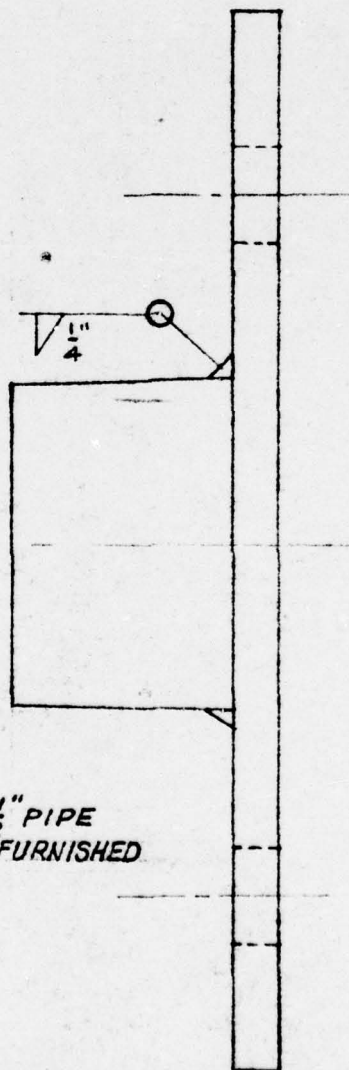


EXISTING 5001 MOUNT



2
5001B

REMOVE EXISTING $\frac{1}{2}$ " PIPE
 & INSTALL ADAPTER FURNISHED
 BY SANDIA



NOTE
 DECIMAL T
 FRACTION T
 PLATES M

PAGE III

MODIFICATION OF 5001 MOUNT USED ON DWGS.

5104	5128
5113	5131
5115	5132
5118	5133
5122	5107
5126	

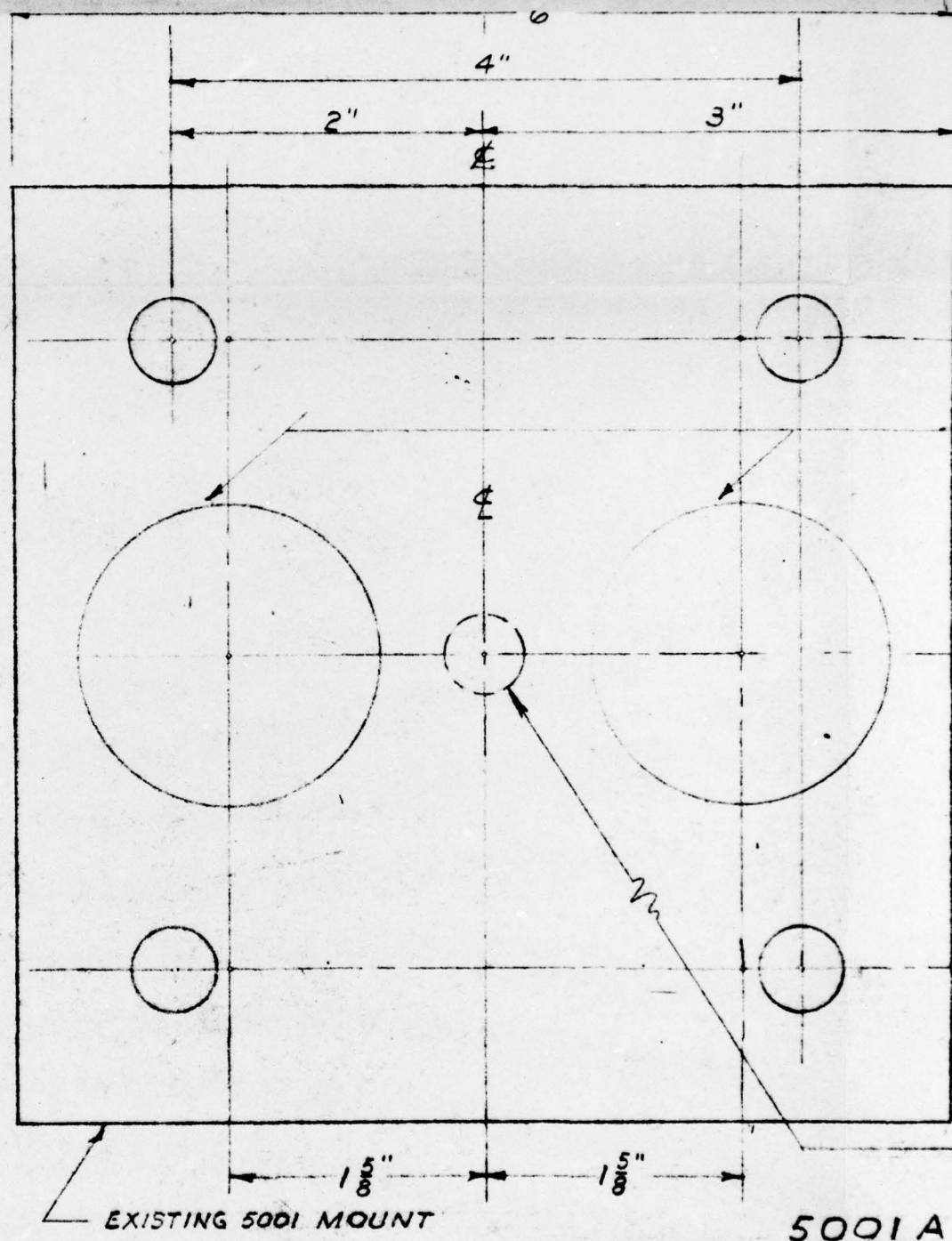
NOTE

3

DECIMAL TOLERANCE ± 0.005

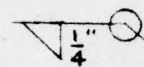
FRACTION TOLERANCE $\pm \frac{1}{32}$ "

PLATES MAY BE TORCH CUT



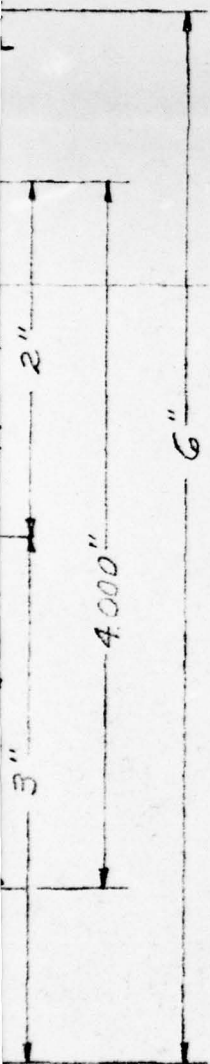
4

2 ADAPTERS
FURNISHED BY SANDIA



INSIDE PLATE
MATERIAL - MILD STEEL (CRS)
#5 STD BLACK PIPE

SCALE : FULL



REMOVE EXISTING $\frac{1}{2}$ " PIPE



5

FIG. A2.80

SIDE PLATE

MATERIAL - MILD STEEL (CRS OR HRS)
TO BLACK PIPE

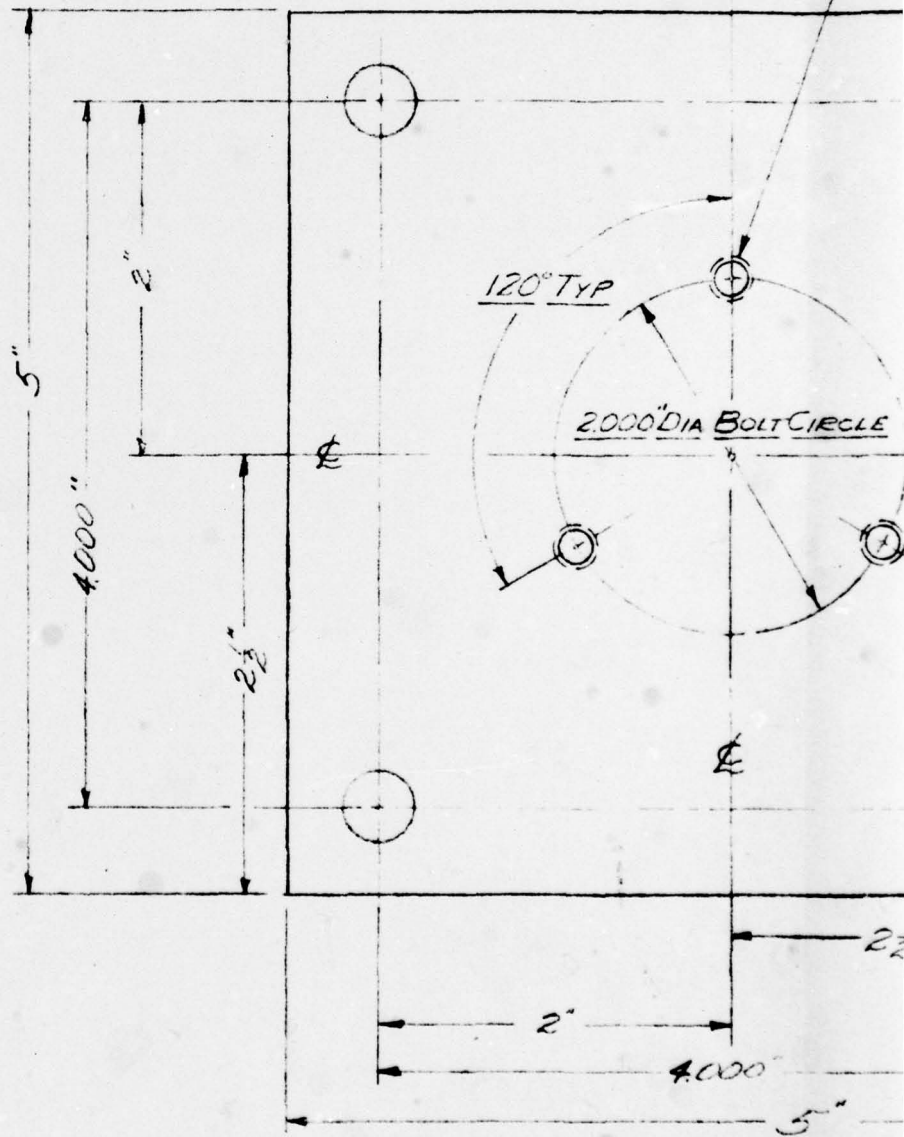
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SCALE : FULL SCALE

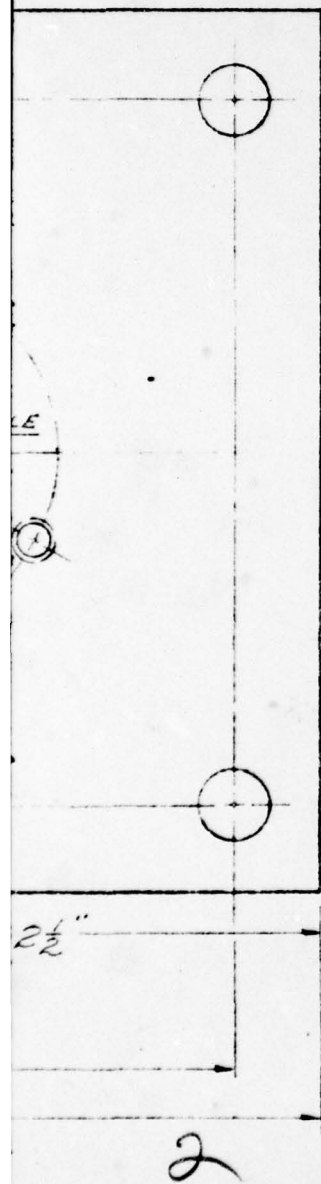
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			DR. H.F.H.	CH. L.V.	DATE 3-29-50	SHEET NO. 5001
			JOB NO. 840F	APPROVED W.T. L...		

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3 PLACES - DRILL & TAP FOR $\frac{1}{4}$ -28 N.F. 2 THD
INSERT $\frac{1}{4}$ -28 N.F. $\frac{3}{4}$ " SOCKET HEAD OR HEADLESS FLAT POINT
SET SCREW (BRASS)



INSIDE PLATE
MATERIAL ~ MILD STEEL (CRS OR H.)

BLANCHARD GRIND OR EQUAL ONE FACE

NOTE

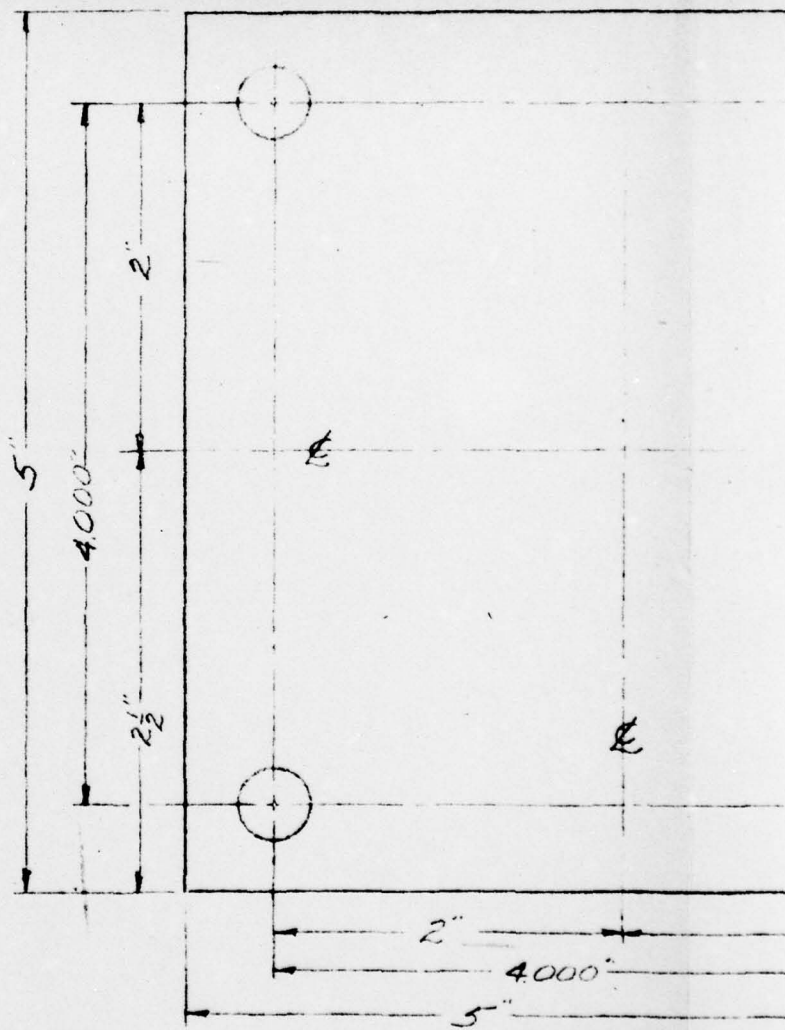
PAGE 112

EEL (CRS OR HRS)

EQUAL ONE FACE ONLY

3

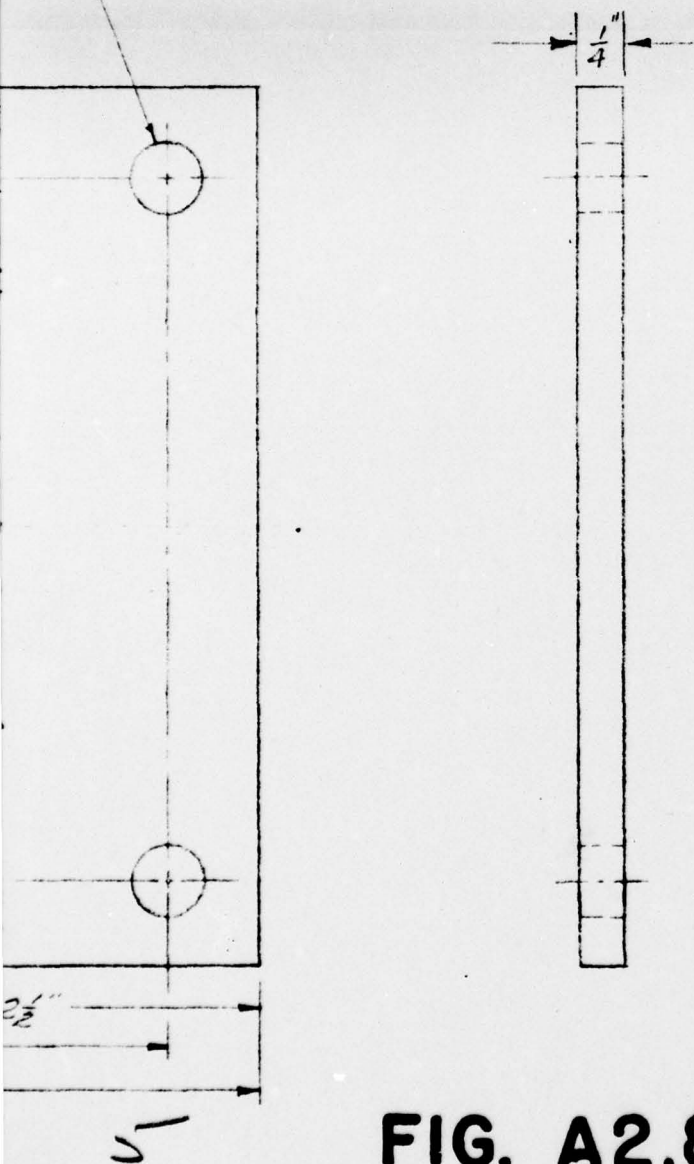
NOTE



4

DECIMAL TOL
FRACTION TOL
PLATE MAY BE

8 PLACES - $\frac{7}{16}$ " DIA DRILL



OUTSIDE PLATE
MATERIAL - MILD STEEL (CRS OR H.R.S)

SCALE : FULL SCALE

FIG. A2.81

FINAL TOLERANCE $\pm 0.005"$
SECTION TOLERANCE $\pm 0.005"$
TE MAY BE TORCH CUT

HRS)

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FOR THIN PANELS & SLABS

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Trans		3-28-50	5002	
JOB NO.	APPROVED.			
840F	1.2.15.50			

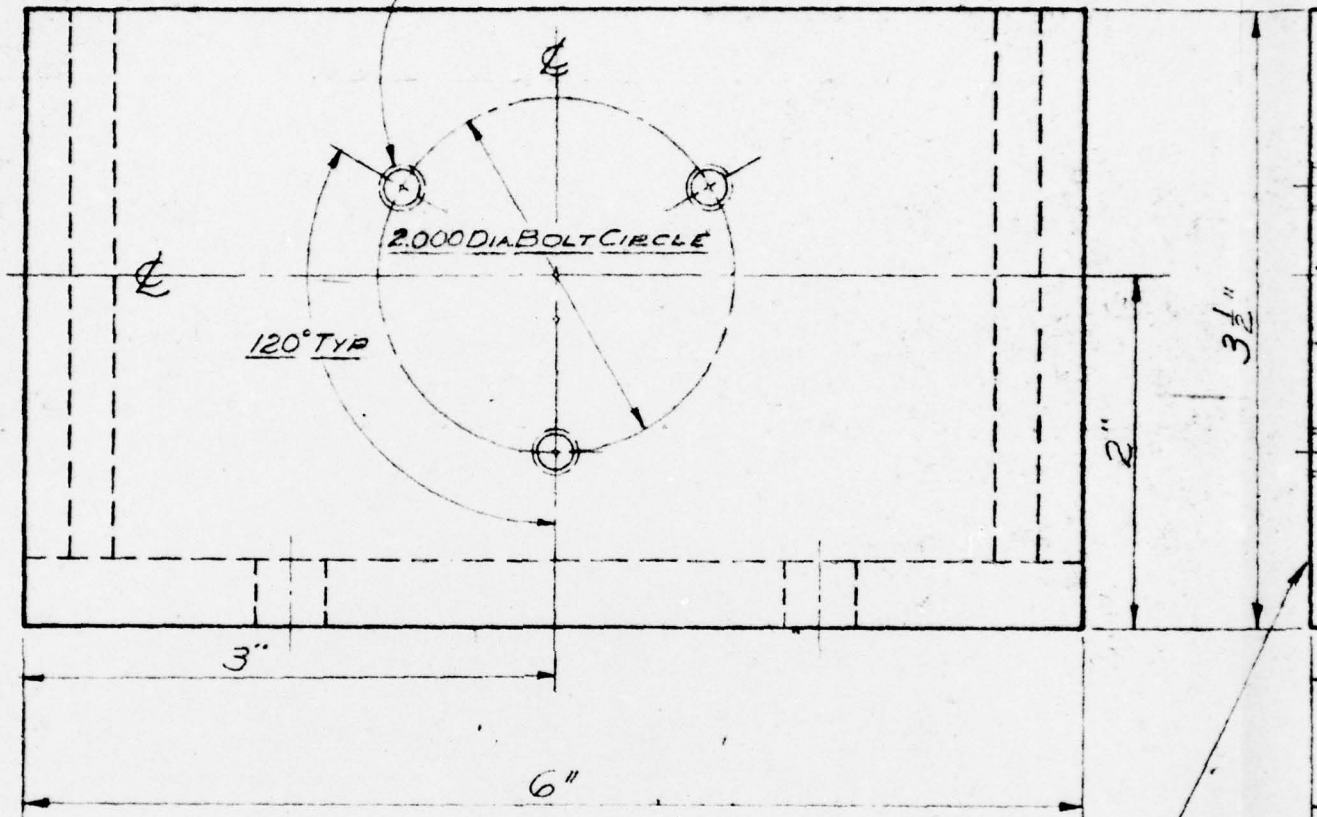
SCALE

6

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~~REDACTED~~

3 HOLES - DRILL & TAP FOR $\frac{1}{4}$ "-28 NF2 T
INSERT $\frac{1}{4} \times \frac{3}{8}$ " FLAT POINT SOCKET HEAD

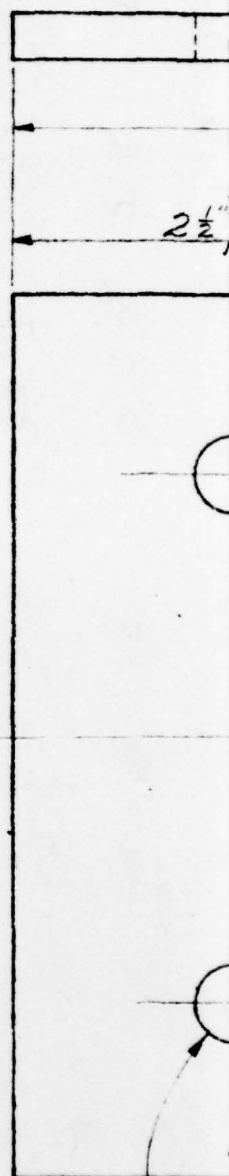
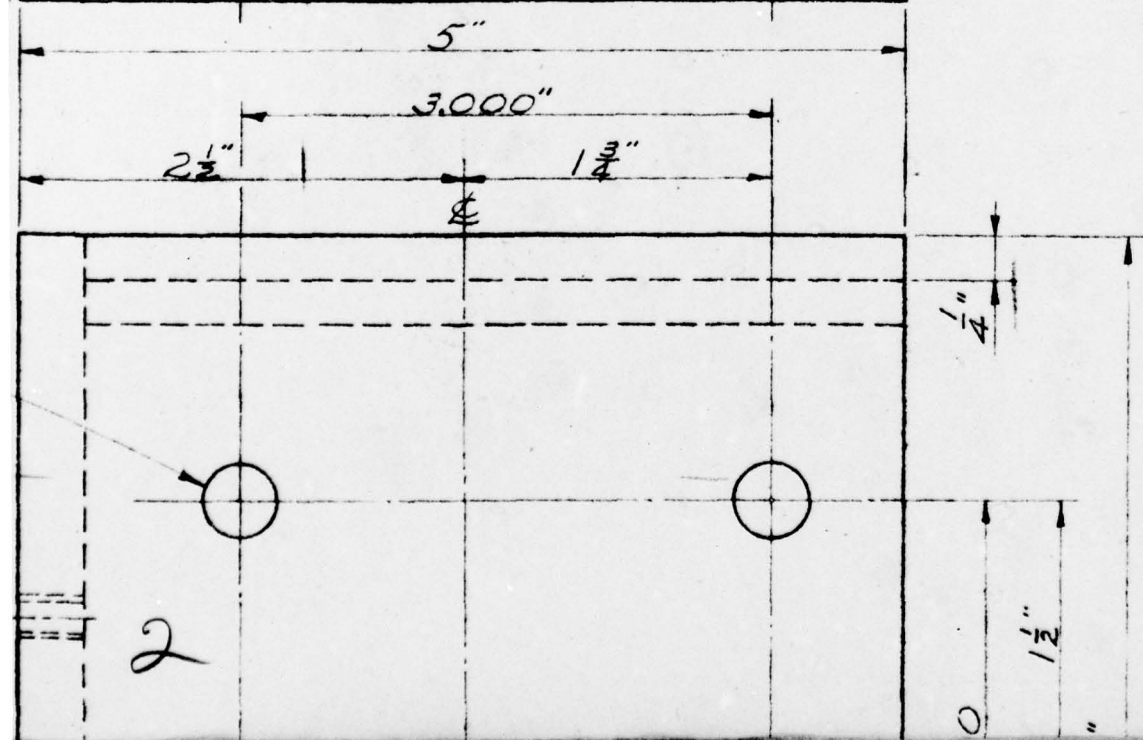
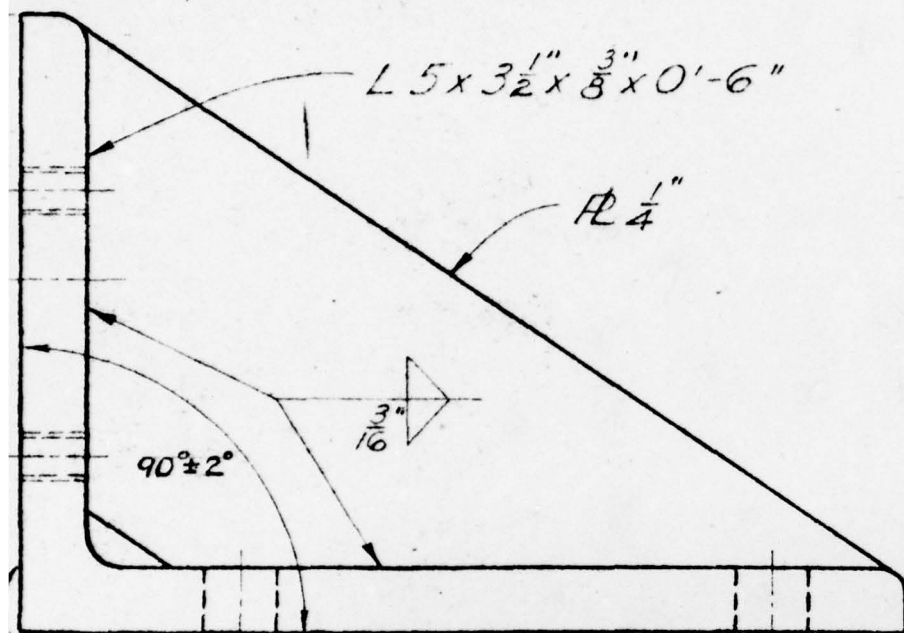


BLANCHARD GRIND OR
EQUAL, THIS FACE ONLY

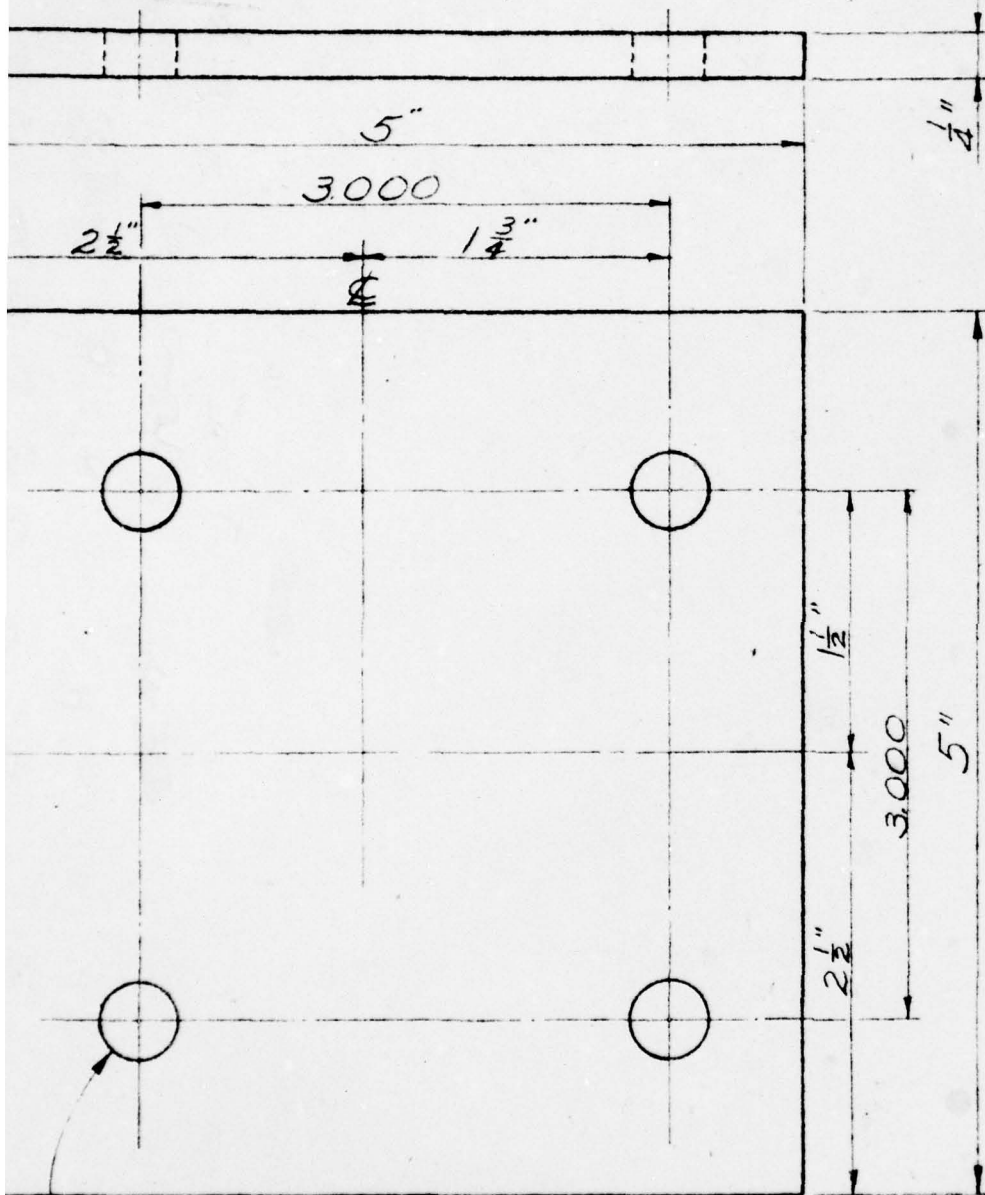
4 HOLES - DRILL $\frac{7}{16}$ "

THD

OR HEADLESS SET SCREWS (BRASS)



PAGE 113

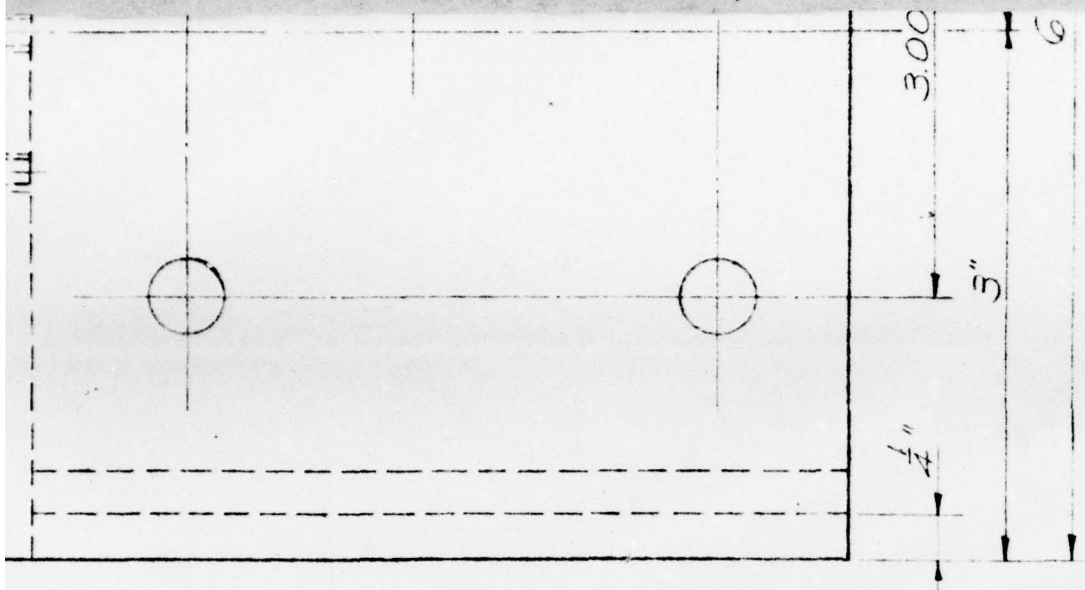


4 HOLES- DRILL $\frac{7}{16}''$

2

INSIDE CLIP ANGLE
MATERIAL: MILD STEEL

4



(CRS OR HRS)

NOTE:

DECIMAL TOLERANCE ± 0.005 "

FRACTION TOLERANCE $\pm \frac{1}{32}$ "

PLATES MAY BE TORCH CUT

5

FIG. A2.82

SCALE: FULL SIZE

OUTSIDE PLATE
MATERIAL: MILD STEEL (CRS OR HRS)

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5"
 2"
 UT

6

Technical drawing of a rectangular plate with dimensions and hole specifications. The drawing includes a grid of 10 holes (2 rows by 5 columns) and 6 larger holes (3 in a row at the top and 3 in a row at the bottom). Dimensions are given in inches.

DRILL & TAP -
 $\frac{1}{4}$ "-20NC-2 THD
10 PLACES &
INSERT $\frac{1}{4}$ "x $\frac{3}{8}$ " SOCKET
HEAD OR HEADLESS
FLAT POINT
SET SCREW (BRASS)

3.500"

1.125"

1.125"

4.375"

7"
 $\frac{1}{16}$ " DRILL
6 HOLES

5 $\frac{1}{2}$ "

11"

9

1/4"-20NC-2 THD

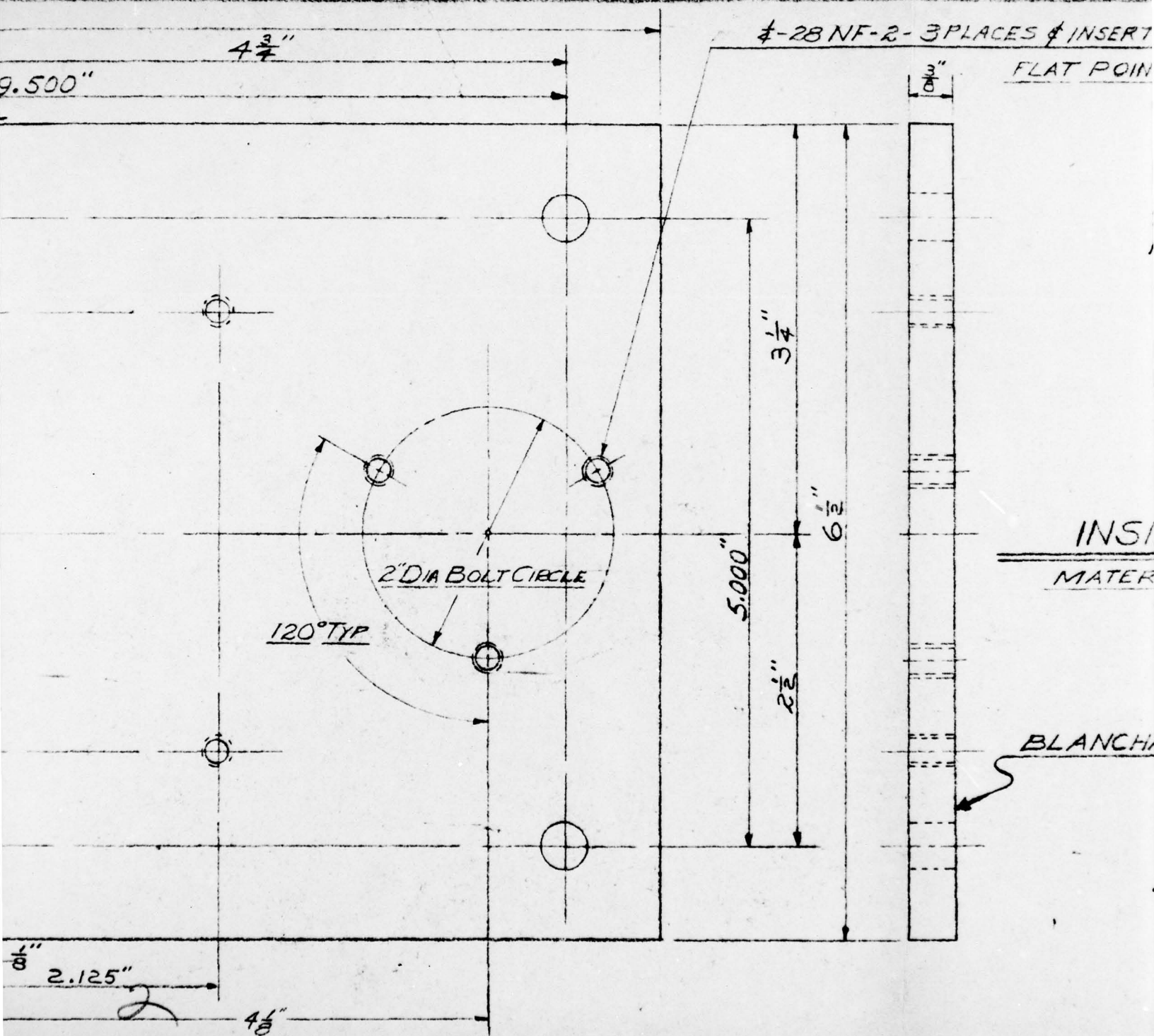
10 PLACES \neq

INSERT $\frac{1}{4} \times \frac{3}{8}$ SOCKET
HEAD OR HEADLESS
FLAT POINT
SET SCREW (BRASS)

Technical drawing of a rectangular plate. The drawing shows two vertical lines representing the edges of the plate. The left edge is labeled with a dimension of 3.500" (width). The right edge is labeled with a dimension of 1.3" (height). The drawing is oriented vertically on the page.

7"
16 DRILL
6 HOLES

4.375" $\overbrace{\quad 1.125" \quad 1.125" \quad}$



INSERT $\frac{1}{4}$ - 28 x $\frac{3}{8}$ " SOCKET HEAD OR HEADLESS
FLAT POINT SET SCREW (BRASS)

PAGE 114

INSIDE PLATE

MATERIAL: MILD STEEL (CPS OR HRS)

BLANCHARD GRIND OR EQUAL - ONE FACE ONLY

NOTE

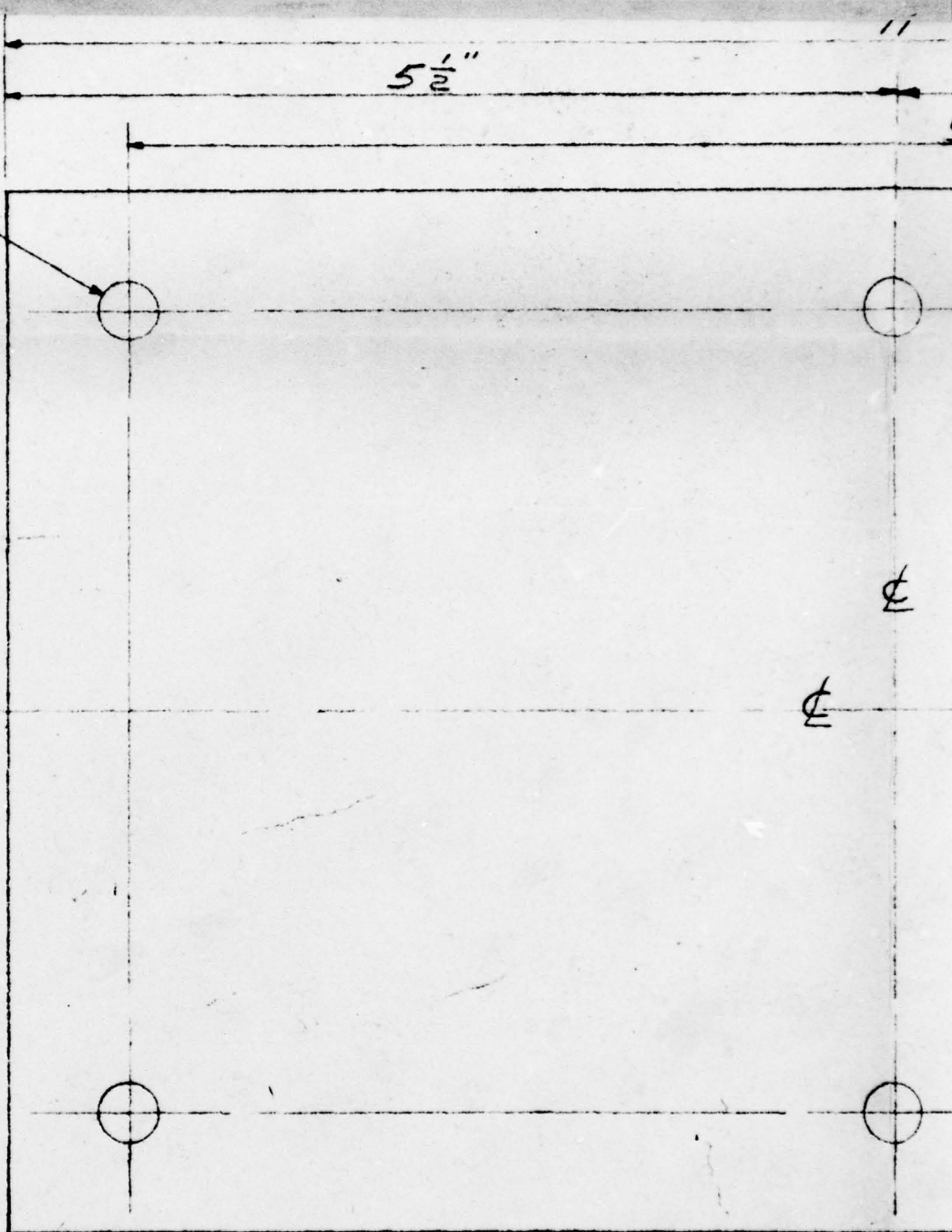
3 DECIMAL TOLERANCE ± 0.005 "

FRACTION TOLERANCE $\pm \frac{1}{32}$ "

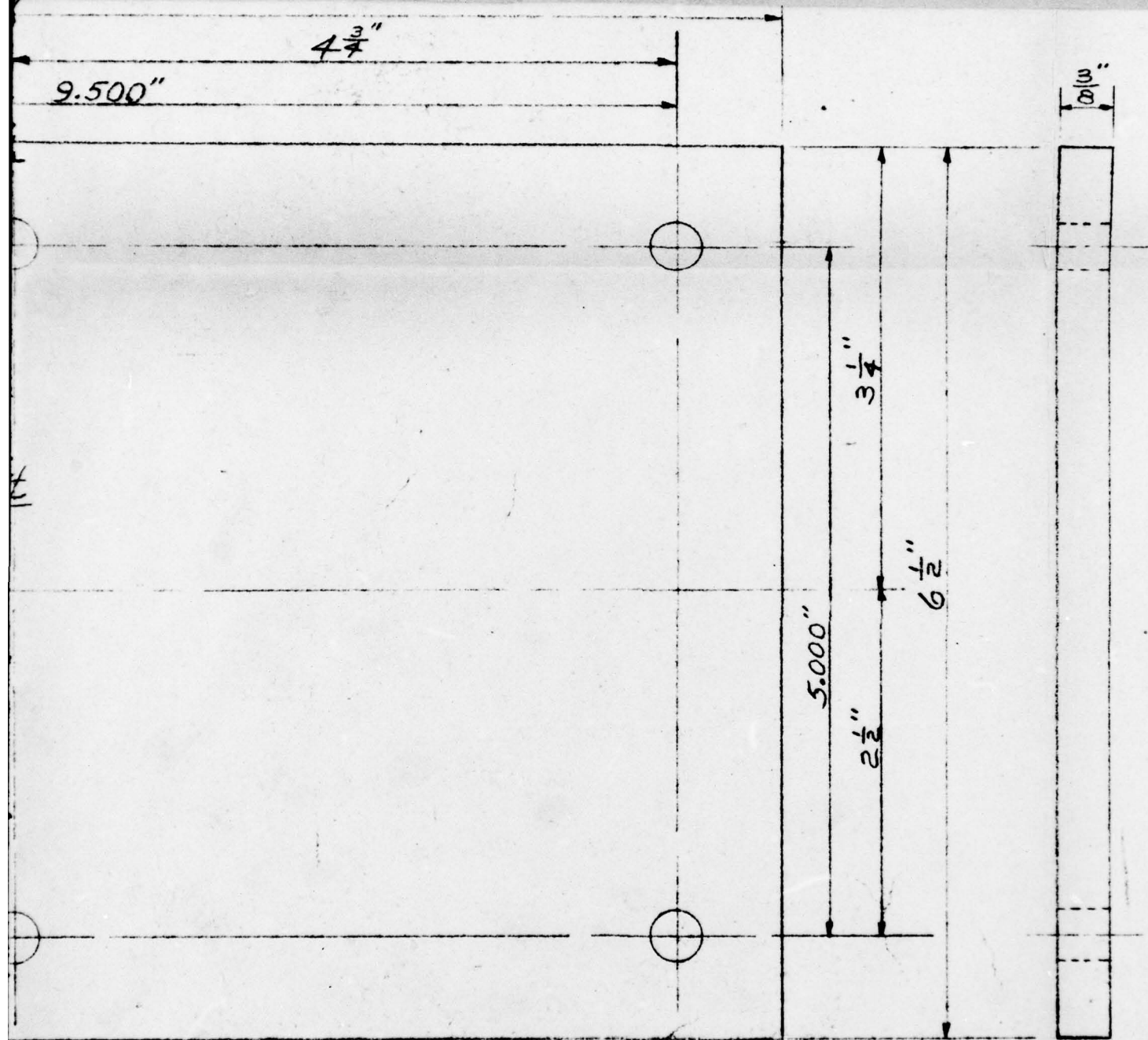
PLATES MAY BE TORCH CUT

7/16" DRILL
6 HOLES

5 1/2"



H



S-

FIG. A2.83

OUTSIDE PLATE

UNCLASSIFIED

MATERIAL: MILD STEEL (CES OR HES)

~~RESTRICTED~~

SCALE: FULL SCALE

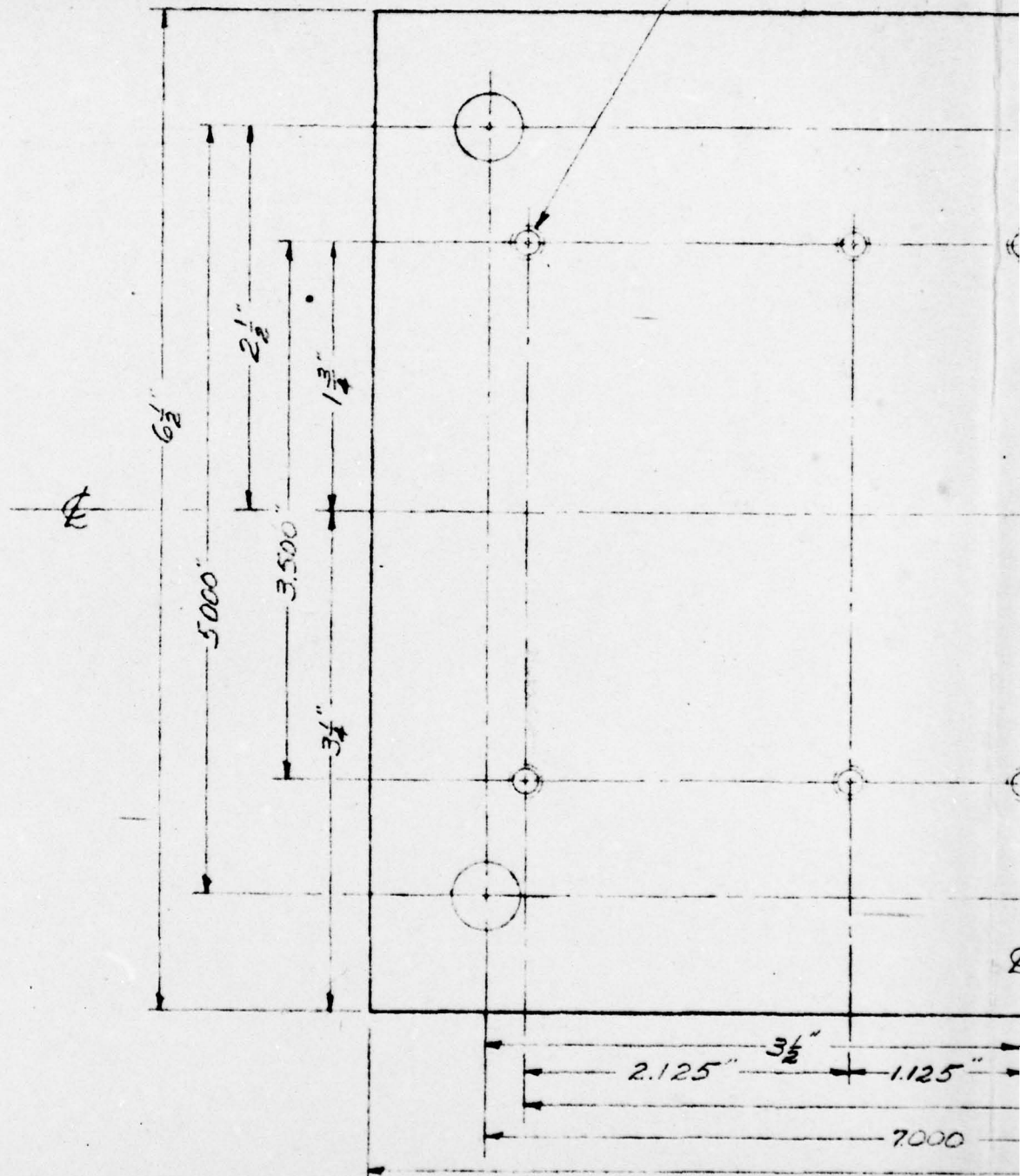
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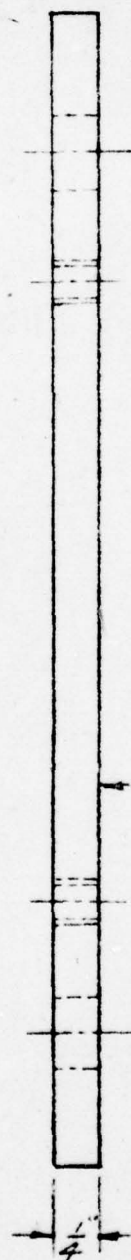
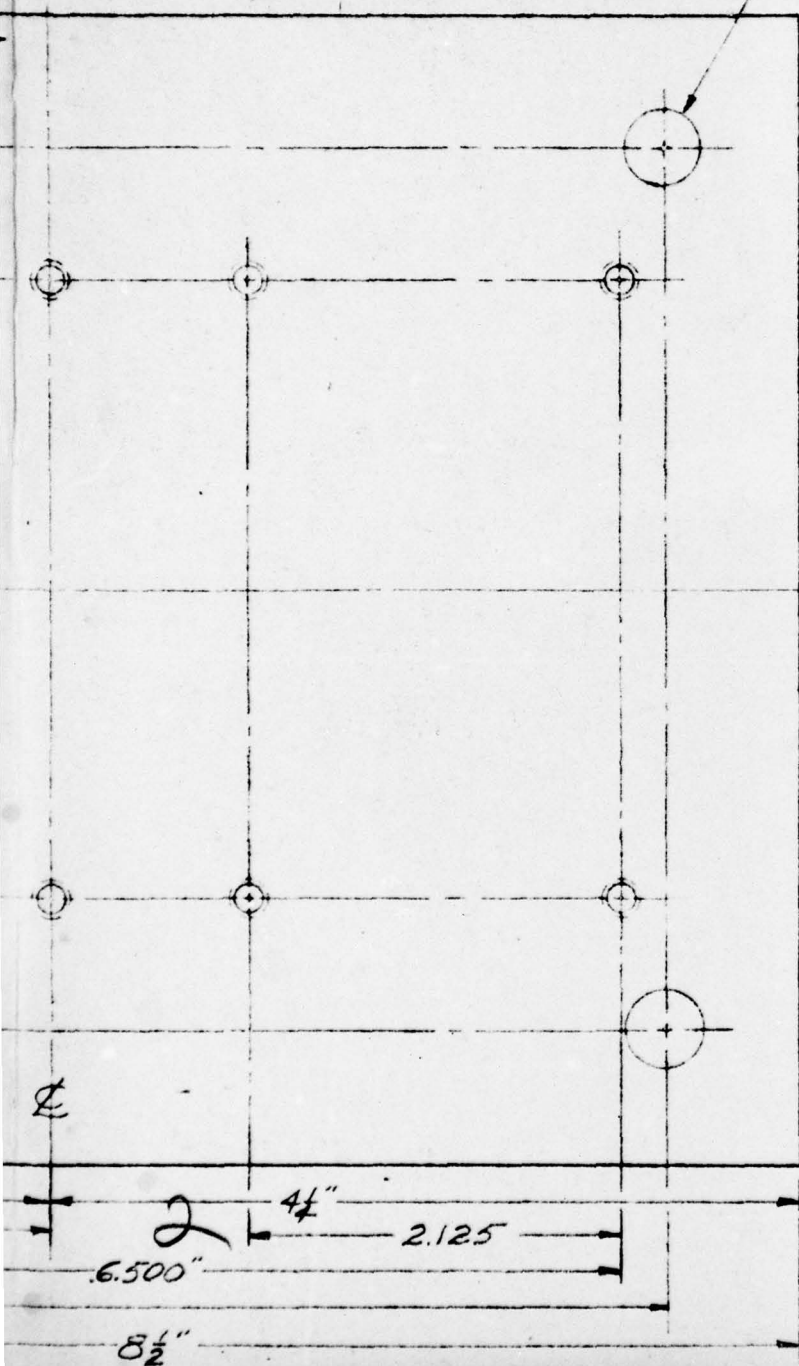
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10 PLACES - DRILL & T.
INSERT $\frac{1}{4}$ " X $\frac{1}{4}$ " SOCKET



TAP $\frac{1}{4}$ -20 NC 2 THD
 SET HEAD OR HEADLESS FLAT POINT SET SCREW (BRASS) 4 PLACES - $\frac{7}{16}$ " DIA DRILL



INSIDE PLATE
 MATERIAL - MILD STEEL

BLANCHARD GRIND OR

NO
 DE
 FE
 FL

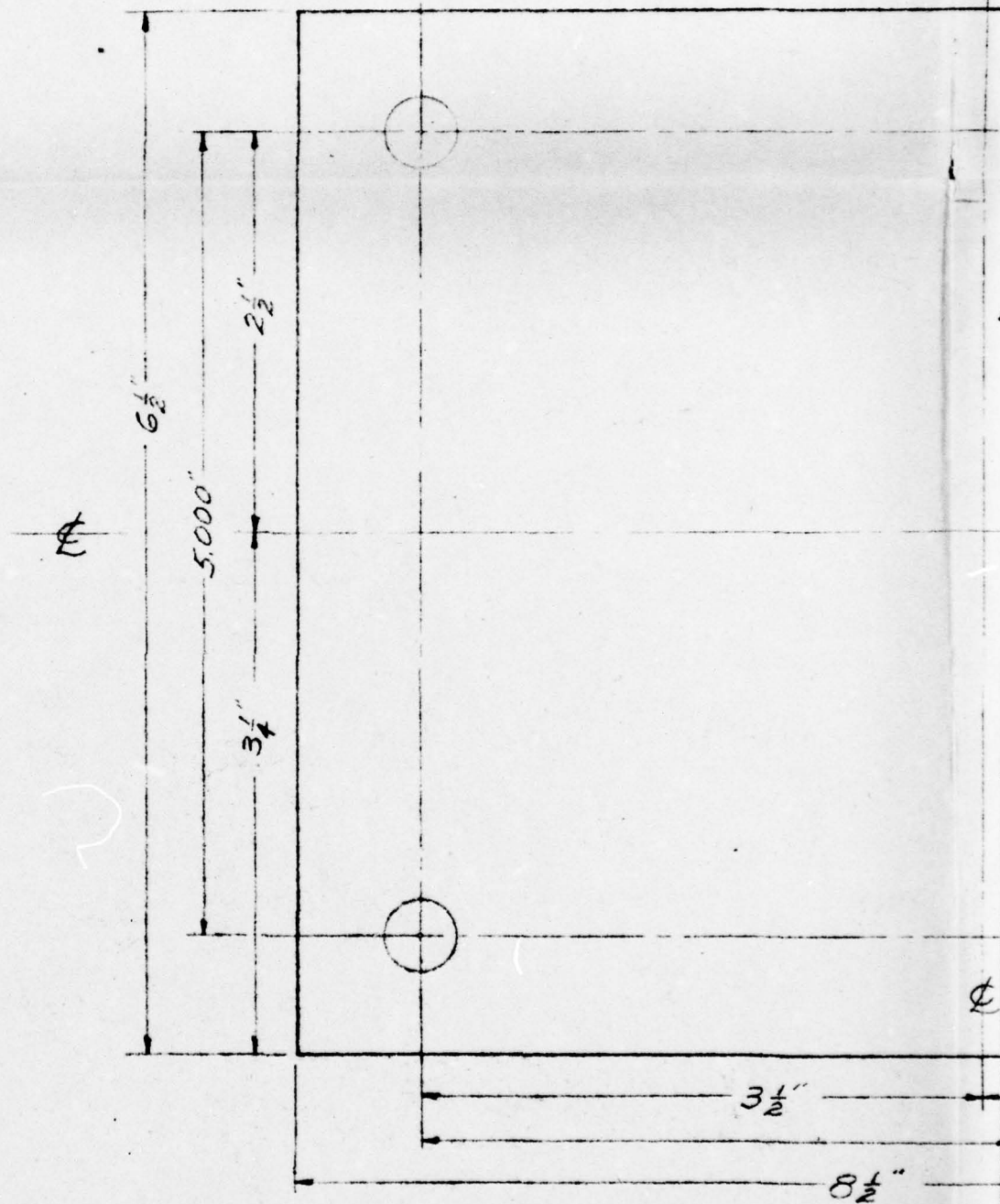
PAGE 115

PLATE
MILD STEEL (CRS OR HRS)

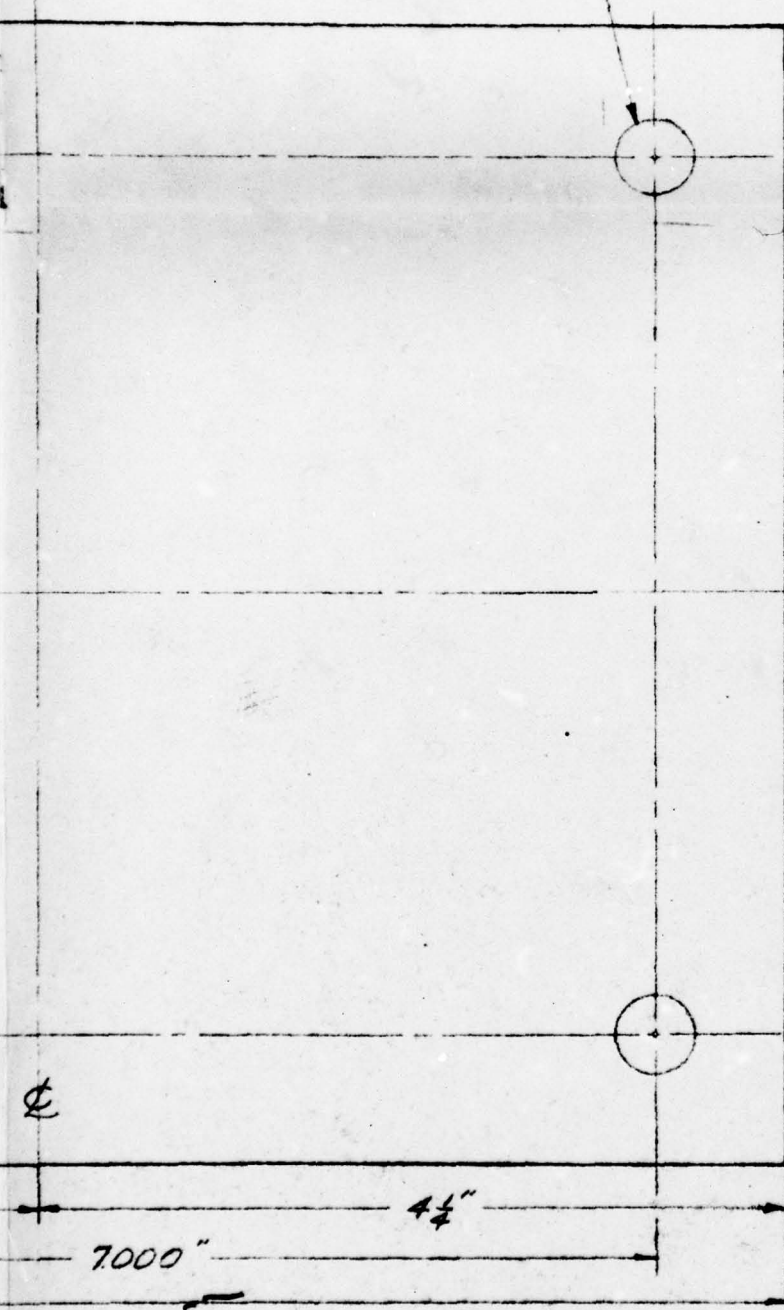
ED GRIND OR EQUAL ONE FACE ONLY

NOTE 3
DECIMAL TOLERANCE $\pm 0.005"$
FRACTION TOLERANCE $\pm \frac{1}{32}"$
PLATE STOCK MAY BE TORCH CUT

4



4 PLACES $\frac{7}{16}$ " DIA. DRILL



$\frac{1}{4}"$



OUTSIDE PLATE
MATERIAL - MILD S

SCALE: FULL SC

FIG. A2.84

E PLATE
IAL - MILD STEEL (CRS OR HRS)

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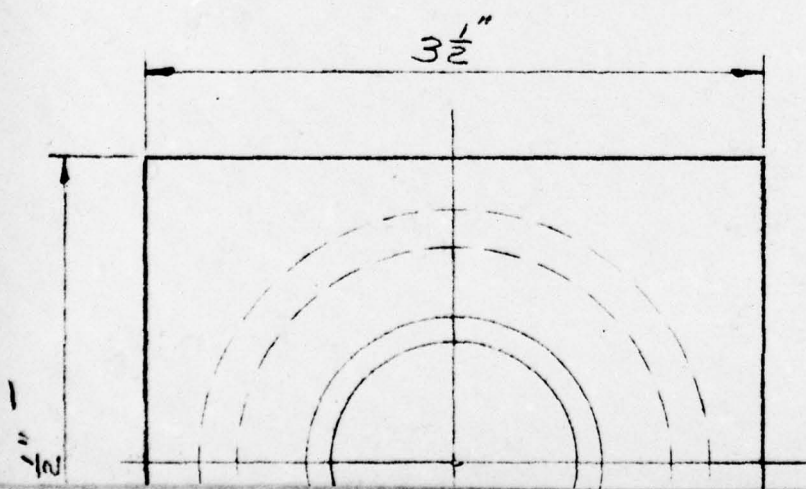
LE: FULL SCALE

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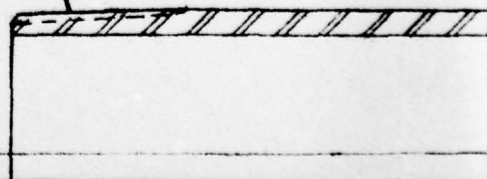
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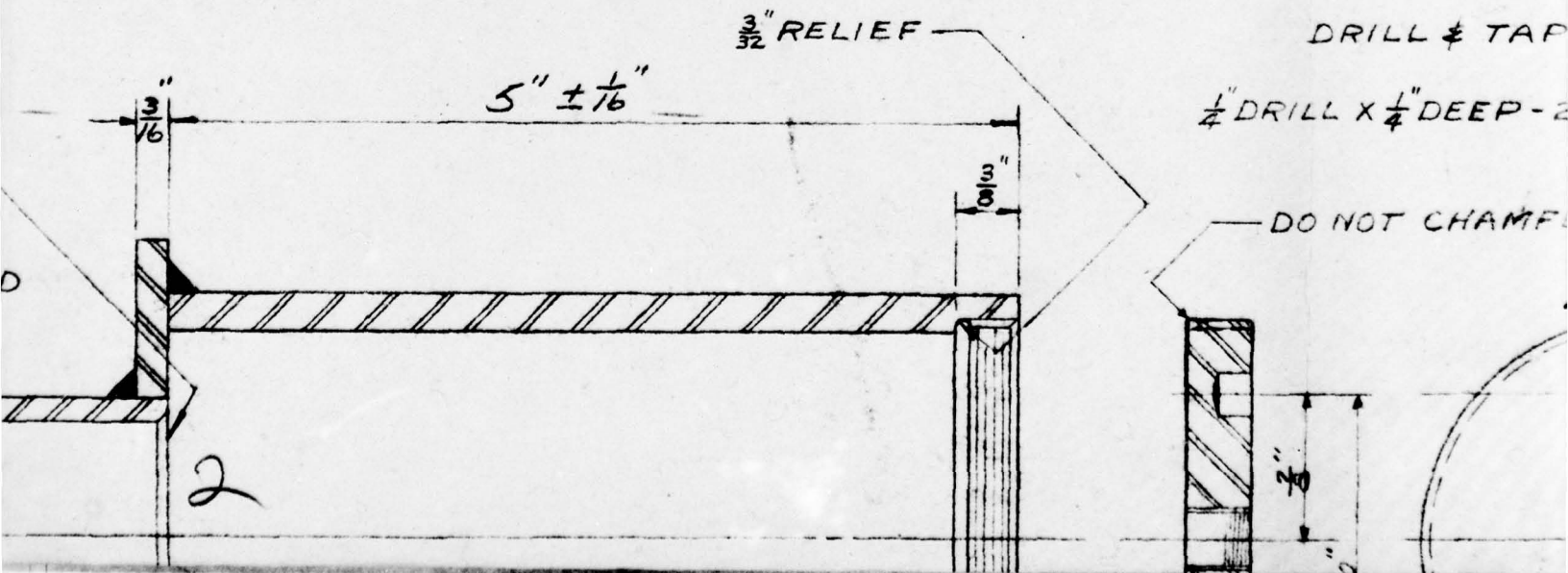
CHAMFER $\frac{1}{16}" \times 45^\circ$

$\frac{1}{4}"$ STD. PIPE THD

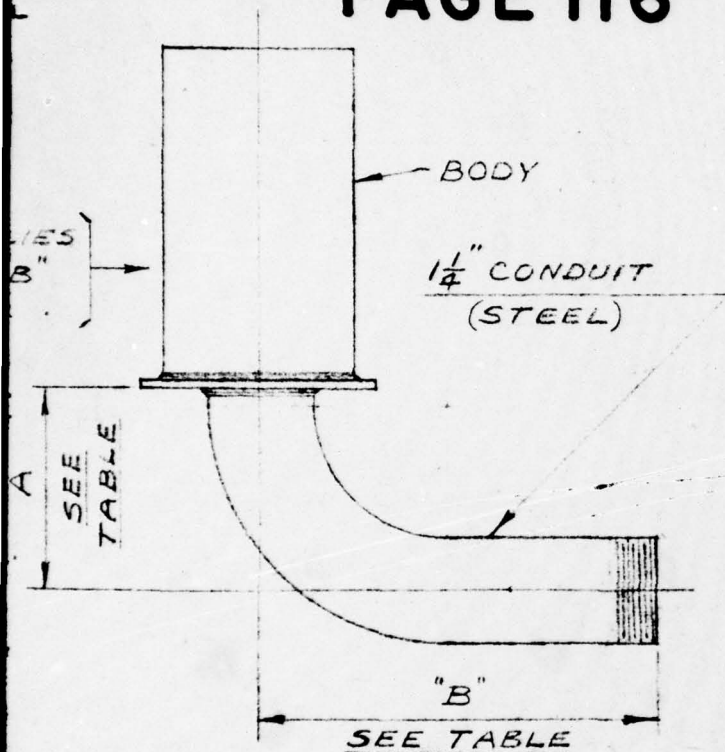


THIS DETAIL APPLIES
ONLY WHEN DIM "B"
IS INDICATED

11 44
A
SEE
TABLE



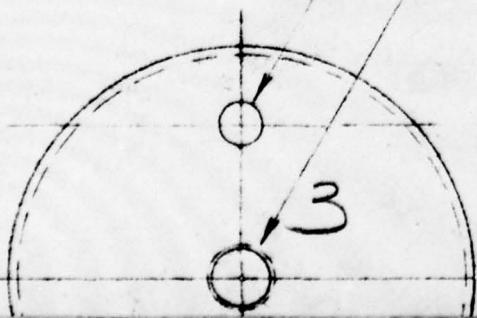
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DRILL & TAP FOR $\frac{3}{8}$ "-16 NC-2

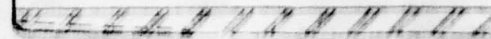
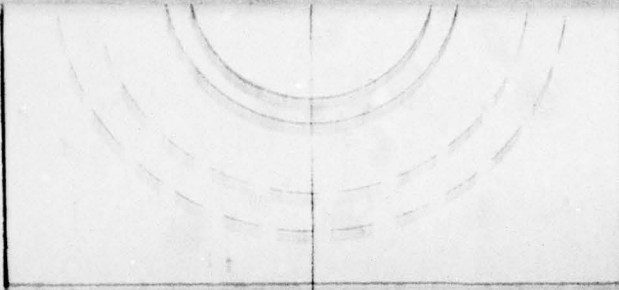
$\frac{1}{4}$ " DEEP - 2 PLACES

NOT CHAMFER



LET.	DIM. "A"	DIM. "B"
a	8"	
b	4	
c	5	
d	6	
e	7	
f	8	
g	9	
h	10	
i	11	
j	12	
k	13	
l	14	
m	15	
n	16	
o	17	
p	18	
q	3	6"
r	3	12
s	6	6
t	6	12
u	9	6
v	9	12
w	12	6
x	12	12
y	15	6
z	15	12
A	96	CONDUIT

3

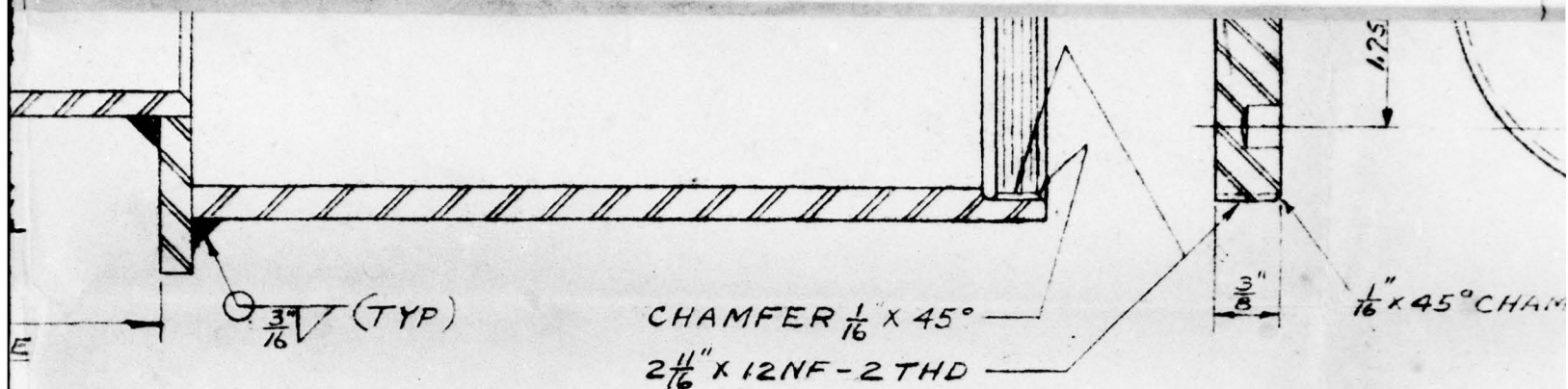


"A"

SEE TABLE

END VIEW

4



CROSS SECTION OF BODY

MATERIAL: SHELBY TUBING-2 7/8" O.D. X 2.435" I.D.
MILD STEEL PLATE (CRS OR HRS)
1 1/4" STD. BLACK PIPE

To
M

NOTE

BREAK SHARP EDGES

DECIMAL TOLERANCE ± 0.00

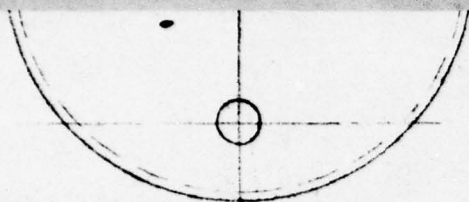
FRACTION TOLERANCE ± 1/32

PLATE STOCK MAY BE TORCH

5

FIG. A2.85

SCALE: FULL



$\frac{1}{8}$ " x 45° CHAMFER

7677 181

TOP VIEW-PLUG
MATERIAL: BRASS

~~RESTRICTED~~
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GES

ANCE ± 0.005 "

ANCE $\pm \frac{1}{32}$ "

BE TORCH CUT

LEI FULL SCALE

FOR POURED-IN-PLACE CONCRETE

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			DR. H.F.K.	CH. LV. 3-29-50
			JOB NO. 8405	APPROVED [Signature]
			SHEET NO. 5006	

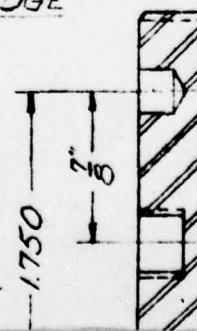
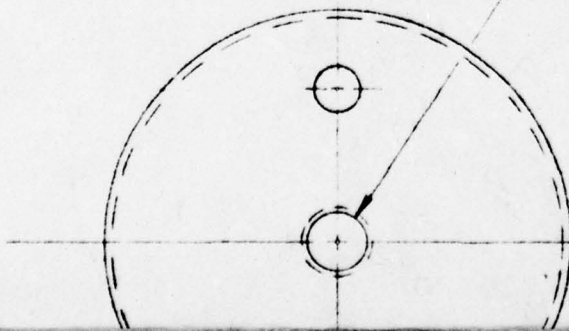
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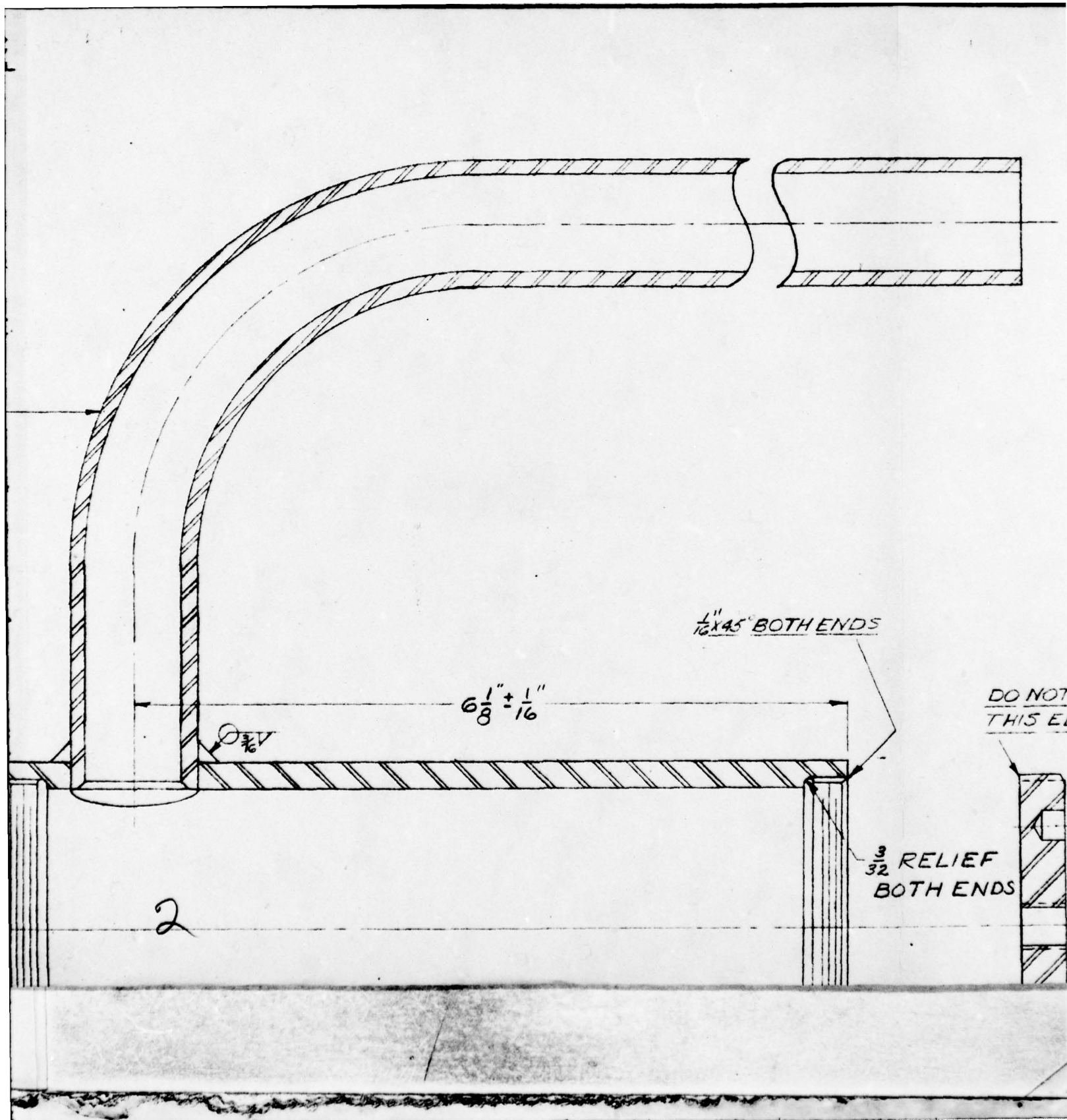
~~SECRET~~

$\frac{3}{4}$ " ELECTRICAL CONDUIT 18" LONG
TO BE FORMED IN FIELD

BOTTOM TAP $\frac{3}{8}$ -16 NC-2 THD
 $\frac{1}{4}$ DEEP

DO NOT CHAMFER THIS
EDGE





PAGE 117

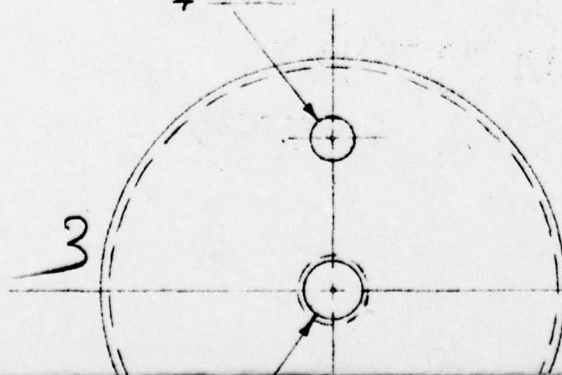
LET.	DIM. A
a	7 $\frac{1}{4}$
b	8
c	9
d	10
e	11
f	12

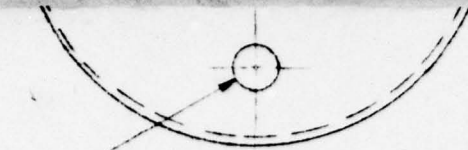
DO NOT CHAMFER
THIS EDGE

2 HOLES - $\frac{1}{4}$ " DIA DRILL
 $\frac{1}{4}$ " DEEP

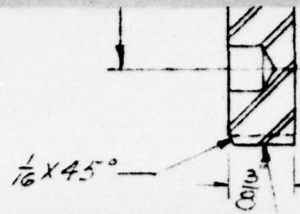
LIEF
ENDS

1.750





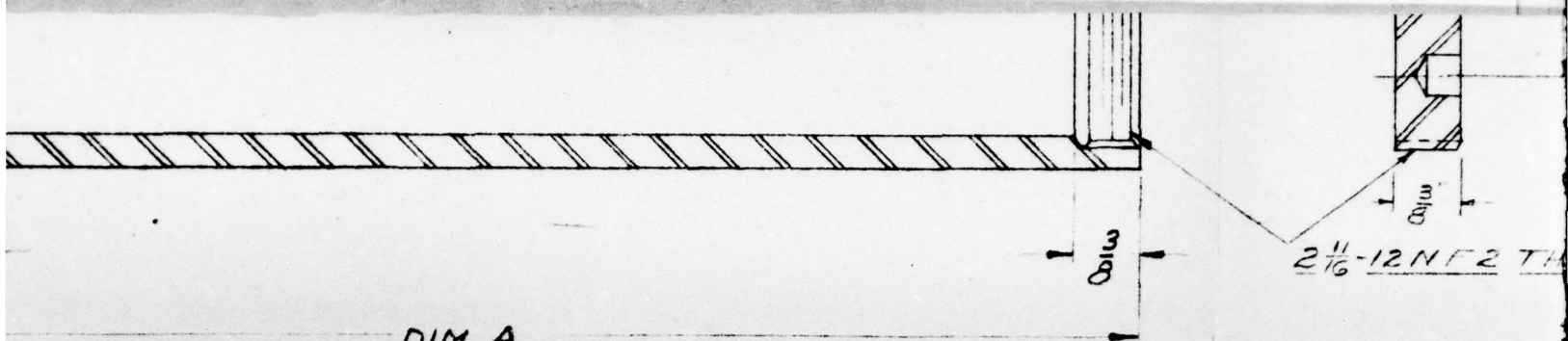
2 HOLES - $\frac{1}{4}$ " DIA DRILL
 $\frac{1}{4}$ " DEEP



$2 \frac{1}{16}$ "-12 NF 2 THD

TOP VIEW LH PLUG
MATERIAL: BRASS

4



DIM A
SEE TABLE

CROSS SECTION OF BODY

MATERIAL: SHELBY TUBING 2 7/8" O.D. 2.438" I.D.
3/4" CONDUIT

NOTE

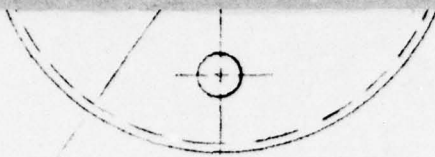
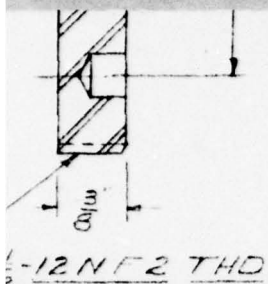
DECIMAL TOLERANCE $\pm 0.005"$

FRACTION TOLERANCE $\pm 1/32"$

SCALE : FULL SCALE

5

FIG. A2.86



TOP VIEW RH PLUG
MATERIAL: BRASS

~~RESTRICTED~~
UNCLASSIFIED

FOR POURED IN PLACE CONCRETE

REVISIONS			HOLMES & NARVER INCORPORATED ENGINEERS 824 S. FIGUEROA ST. LOS ANGELES	
NO.	DATE	DESCRIPTION		
1	3/26/57	CORRECTED NOTATIONS		
	5/6/57	AS BUILT AS SHOWN		
			MOUNT FOR PRESSURE GAGE	
			CH. LV	DATE
			840F	3-27-50
			APPROVED	SHEET NO.
			5007	

005"
2"

FULL SCALE

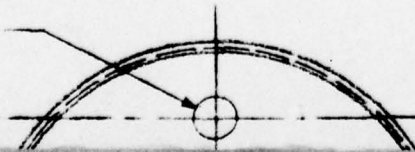
6

UNCLASSIFIED

[REDACTED]

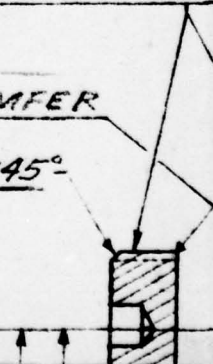
$\frac{1}{4}$ " DRILL $\times \frac{1}{4}$ " DEEP
2 PLACES

1



DO NOT CHAMFER
CHAMFER $\frac{1}{16}$ X 45°

$2\frac{11}{16}$ " 12 NF - 2 THD



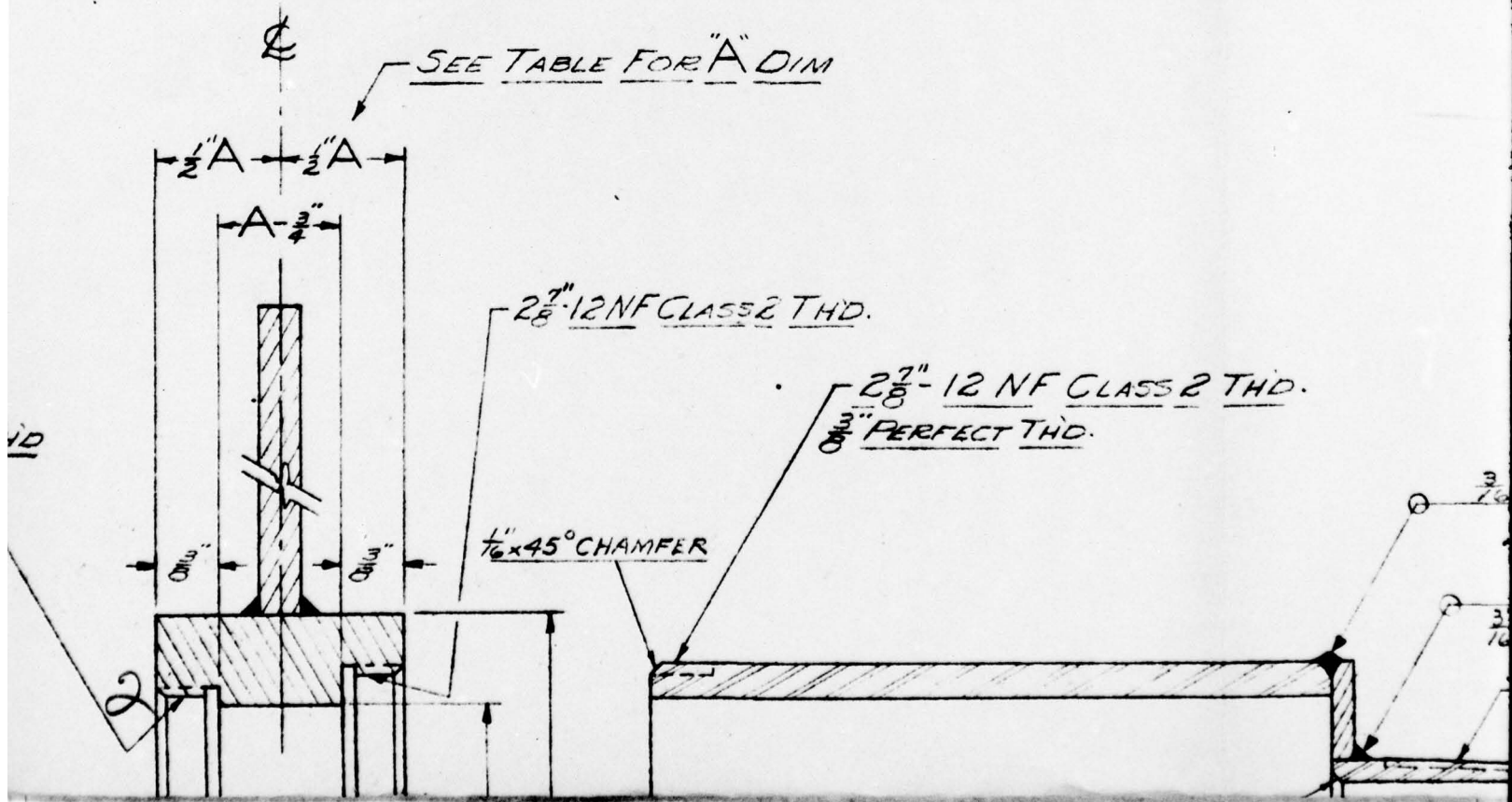
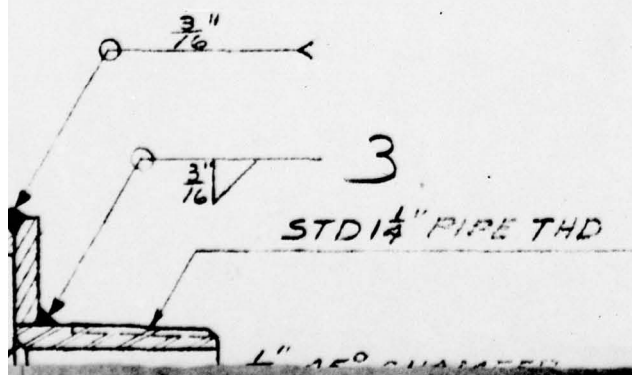
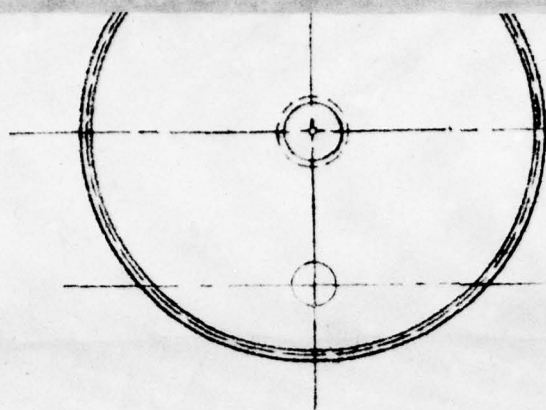


TABLE A

a	$\frac{1}{4}"$
b	$\frac{3}{8}"$
c	$1\frac{1}{2}"$
d	$\frac{3}{4}"$
e	2"
f	
g	
h	





TOP VIEW OF PLUG
MATERIAL - BRASS

DRILL & TAP FOR
STD. $\frac{3}{8}$ " 16 N.C. THD
CLASS 2

1.750"
 $\frac{7}{8}$ "

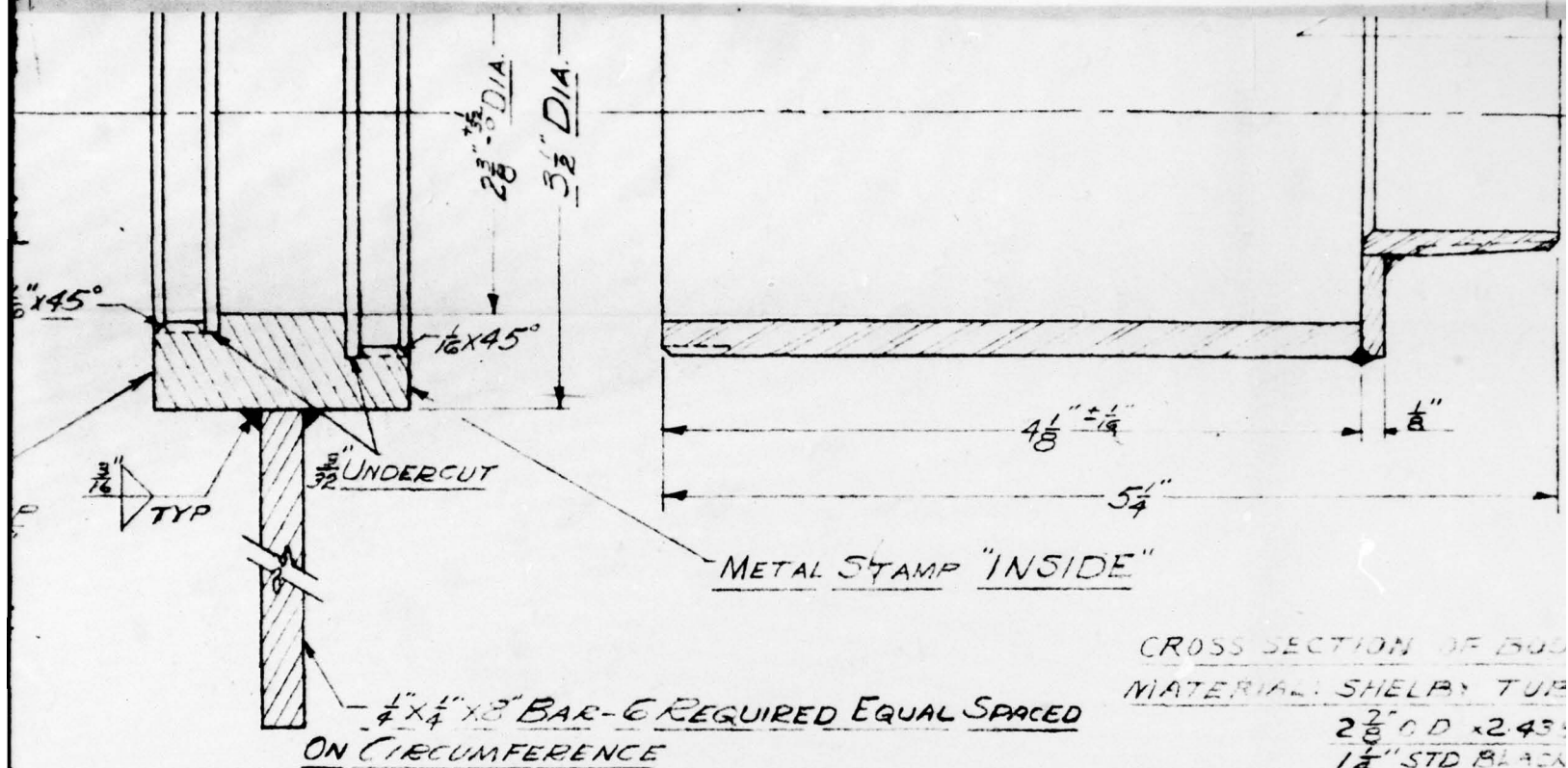


$\frac{1}{16}$ " x 4"

METAL STAMP
"OUTSIDE"

MATERIAL

I



CROSS SECTION OF BUSH
 MATERIAL: SHEET: TYP
 2 3/8" O.D. x 2.43"
 1/4" STD BLACK
 2 3/8" φ x 1/8" ANLD

RETAINER RING

MATERIAL: 3 1/2" φ COLD ROLL BAR STOCK
 1/4" x 1/4" MILD STEEL BAR STOCK (CRS OR HRS)

NOTE

BREAK ALL SHARP EDGES
 DECIMAL TOLERANCES ± 0.005"
 FRACTION TOLERANCES ± 1/32"
 PLATE MAY BE TORCH CUT

5

FIG. A2.87

10x10

1/8"

ON OF BODY

HELPER TUBING

2" O.D. x 2.439" I.D.

1/2" STD BLACK PIPE

1/2" ϕ x 1/8" ANLD STEEL PL. (CRS OR H.P.S.)

~~RESTRICTED~~

SCALE: FULL SCALE

UNCLASSIFIED

EDGES

$\pm 0.005"$

ANCES $\pm 1/32"$

H CUT

FORTHIN PANELS & SLABS

REVISIONS

NO.	DATE	DESCRIPTION
1	3/2/51	CORRECTED NOTATIONS
	5/6/51	AS BUILT AS SHOWN

HOLMES & NARVER
INCORPORATED
ENGINEERS

824 S. FIGUEROA ST. LOS ANGELES

MOUNT
FOR PRESSURE GAUGE

DR.	CH. LV.	DATE	SHEET NO.
ENGINEER		3-21-50	
JOB NO.	APPROVED		
840F	A. T. [Signature]		5008

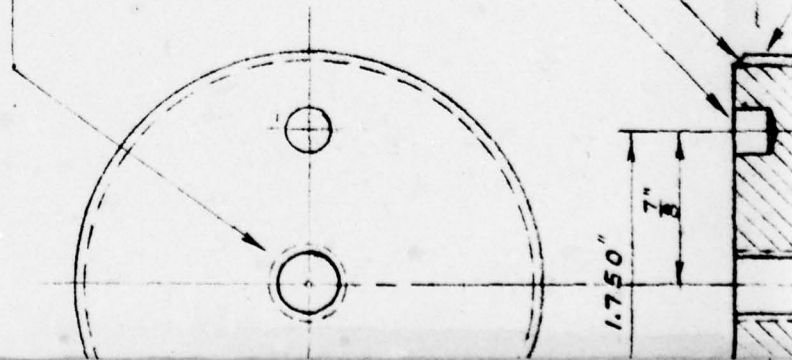
UNCLASSIFIED

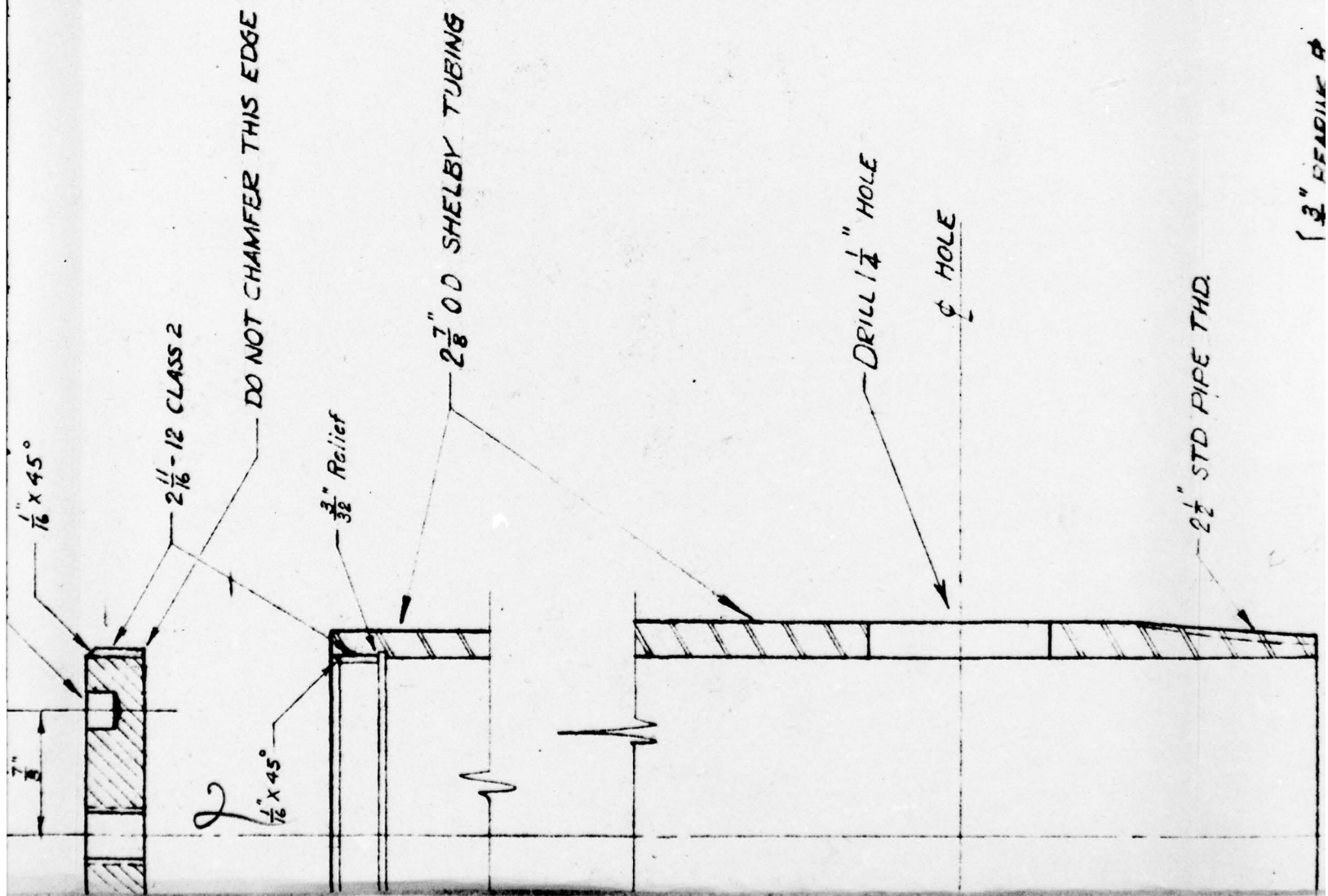
~~XXXXXXXXXXXX~~

DRILL; TAP FOR $\frac{3}{8}$ " 16 NC-2

2 Holes: $\frac{1}{4}$ " DIA DRILL, $\frac{1}{4}$ " DEEP

$\frac{1}{16}$ " x 45°



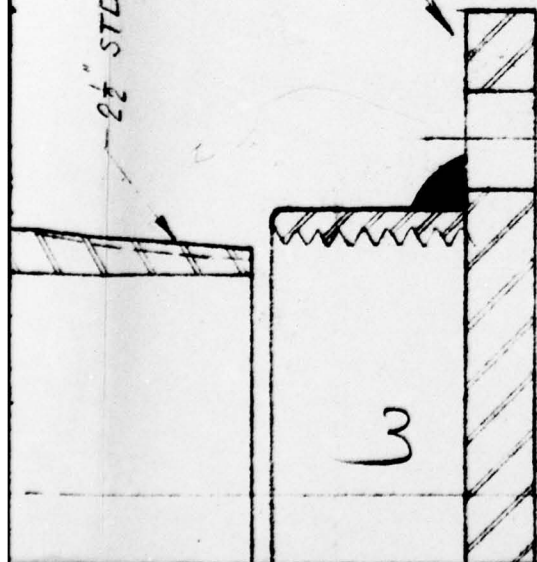


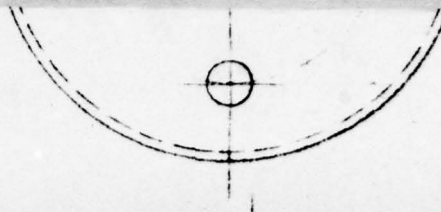
[3" READING #

A	PART NO.
3'-6"	5009
6'-0"	5009 A

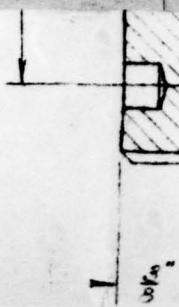
$\frac{3}{8}$ " BEARING PL
SEE PART NO 5009 Sheet 2.

2 1/2" STD PIPE THD.



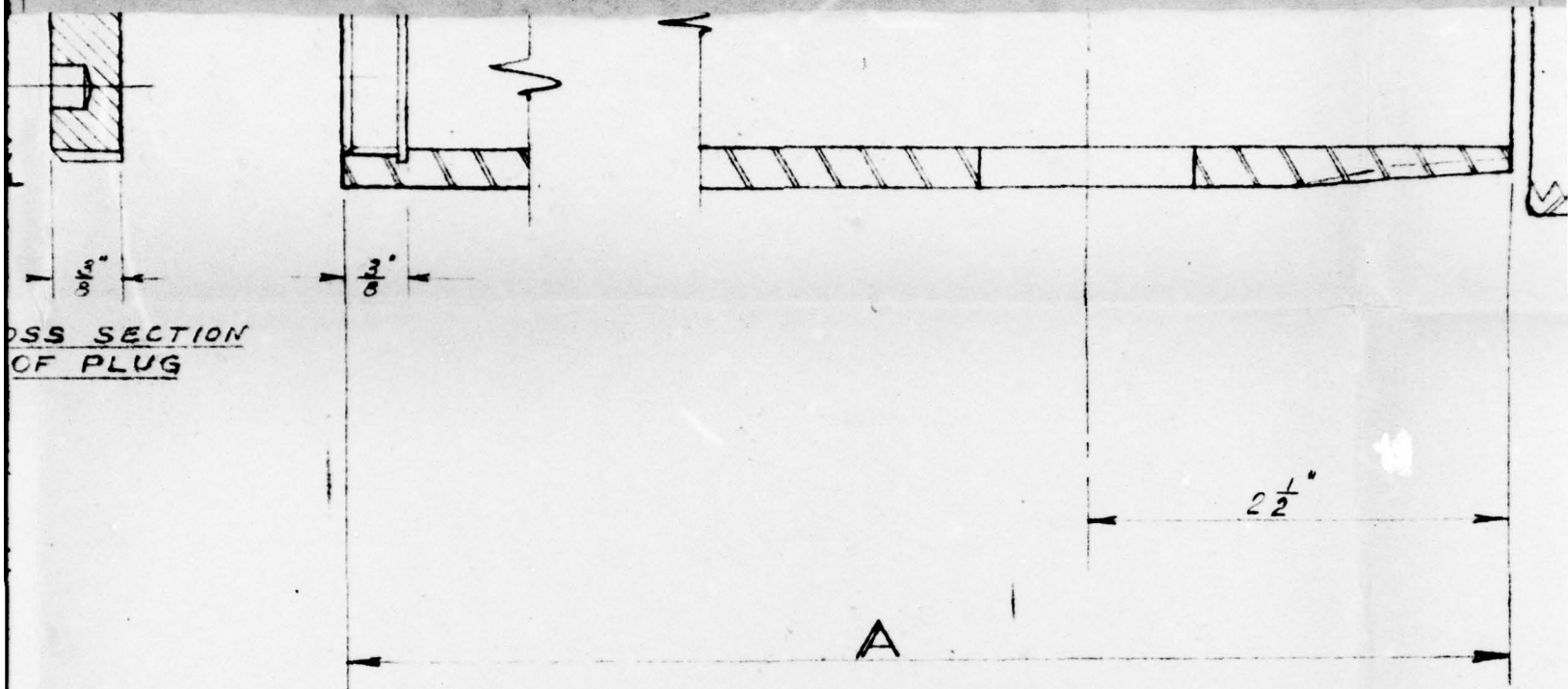


TOP VIEW OF PLUG
MATERIAL: BRASS



CROSS S
OF PL

4



CROSS SECTION OF BODY
MATERIAL: SHELBY TUBING $2\frac{7}{8}$ " OD - 2.438" ID

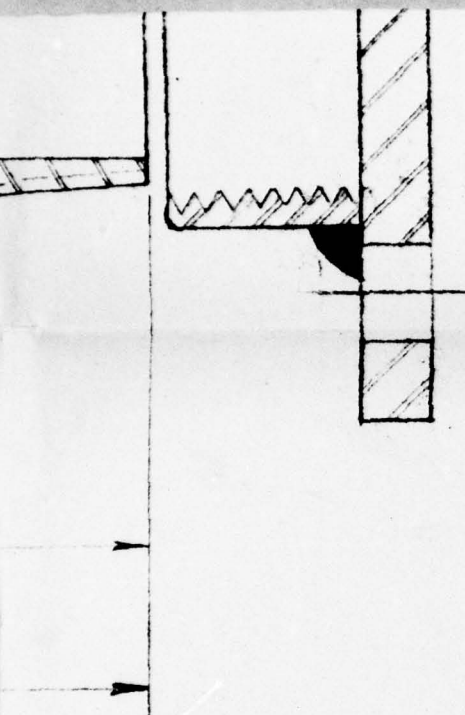
NOTES

DECIMAL TOLERANCE ± 0.00

FRACTIONAL TOLERANCE

5

FIG. A2.88



UNCLASSIFIED

~~RESTRICTED~~

SCALE: FULL SCALE

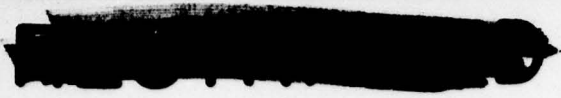
ANCE $\pm 0.005"$
TOLERANCE $\pm 1/32"$

FOR FREESTANDING INTERIOR PRESSURE

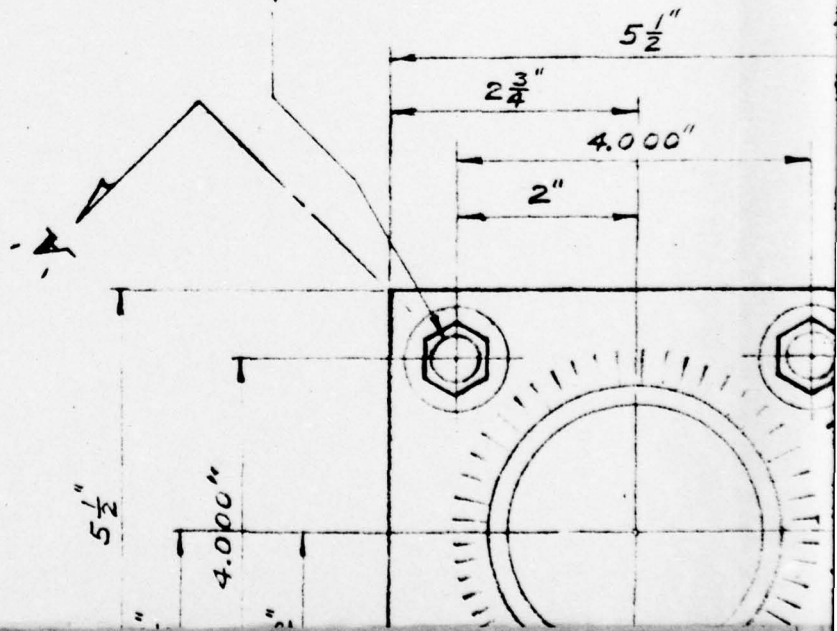
REVISIONS			HOLMES & NARVER INCORPORATED ENGINEERS 824 S. FIGUEROA ST. LOS ANGELES	
NO.	DATE	DESCRIPTION		
1	3/27/51	CORRECTED NOTATIONS	<p><u>MOUNT</u> FOR PRESSURE GAUGE</p>	
	5/6/51	AS BUILT AS SHOWN		
			DR. <i>[Signature]</i> CH. <i>[Signature]</i> DATE 3-28-50 JOB NO. 840F APPROVED <i>[Signature]</i>	SHEET NO. 5009 SHEET 1

6

UNCLASSIFIED



4 HOLES: $\frac{9}{16}$ " DIA DRILL THROUGH

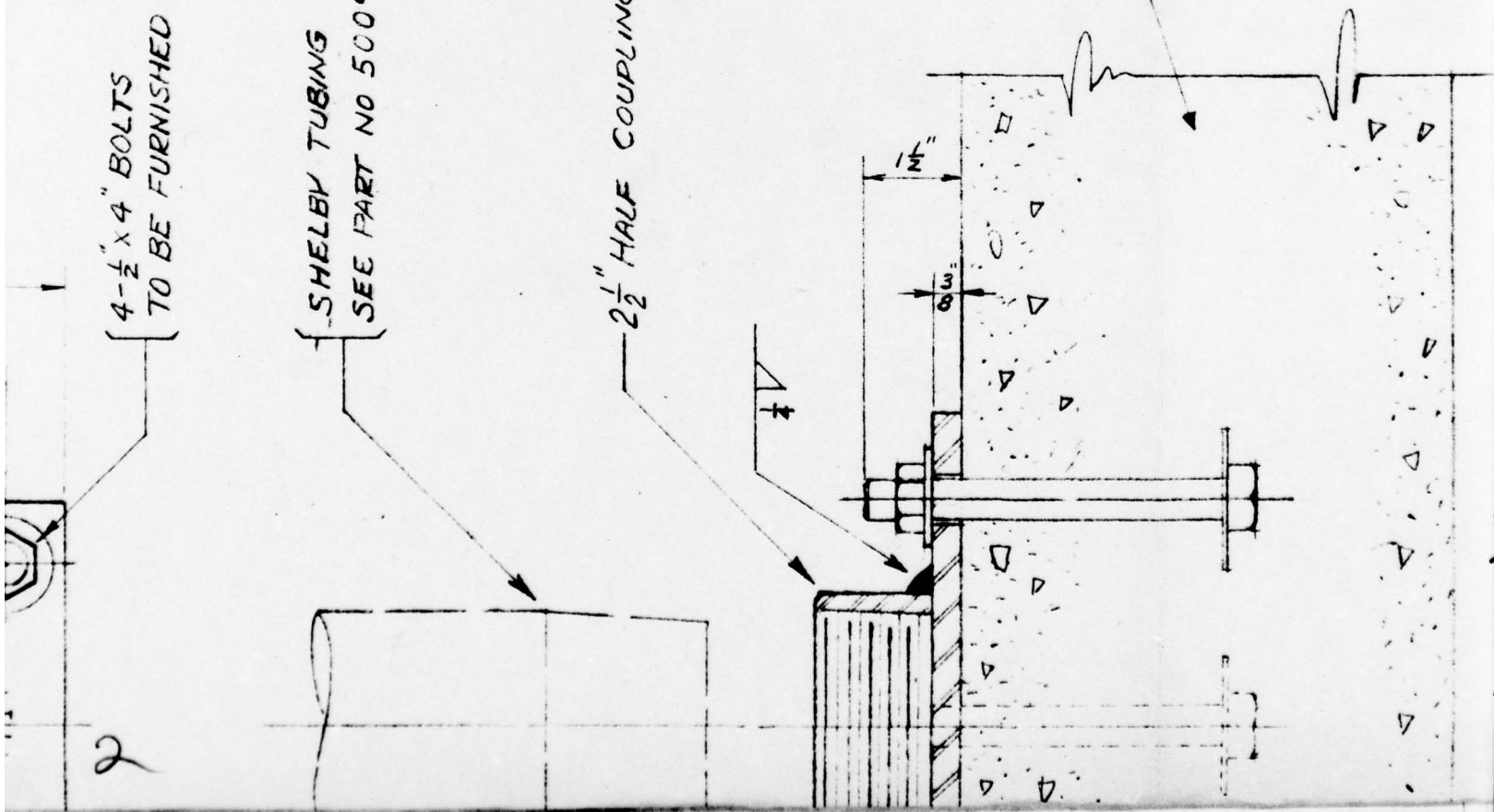


4- $\frac{1}{2}$ " x 4" BOLTS
TO BE FURNISHED IN FIELD

SHELBY TUBING
SEE PART NO 5009 SHEET 1

2 $\frac{1}{2}$ " HALF COUPLING

6" CONCRETE FLOOR SLAB



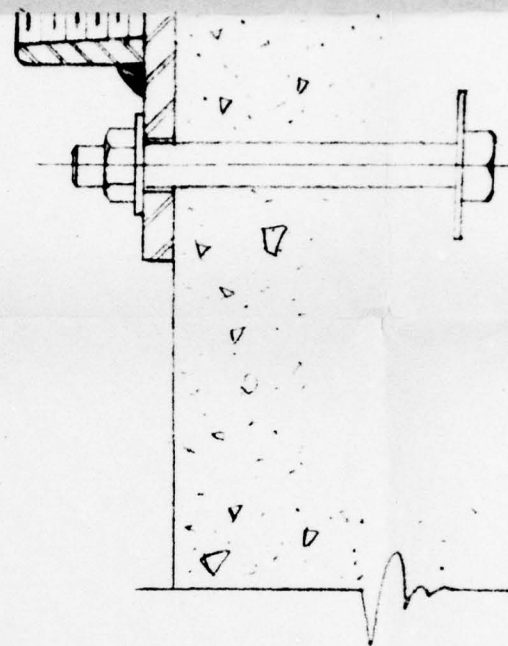
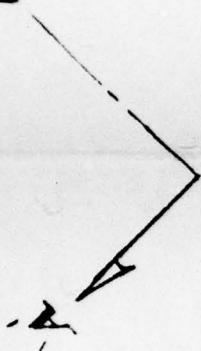
PAGE 120

TION A-A

3



4



BEARING PLATE

MATERIAL:

BASE PLATE - MILD STEEL (C45 OR HCS)
COUPLING - BLACK MALLEABLE

5

FIG. A2.89

SEC

Notes

DECIMAL TOLERANCE $\pm 0.005"$

FRACTIONAL TOLERANCE $\pm 1/32"$

~~RESTRICTED~~

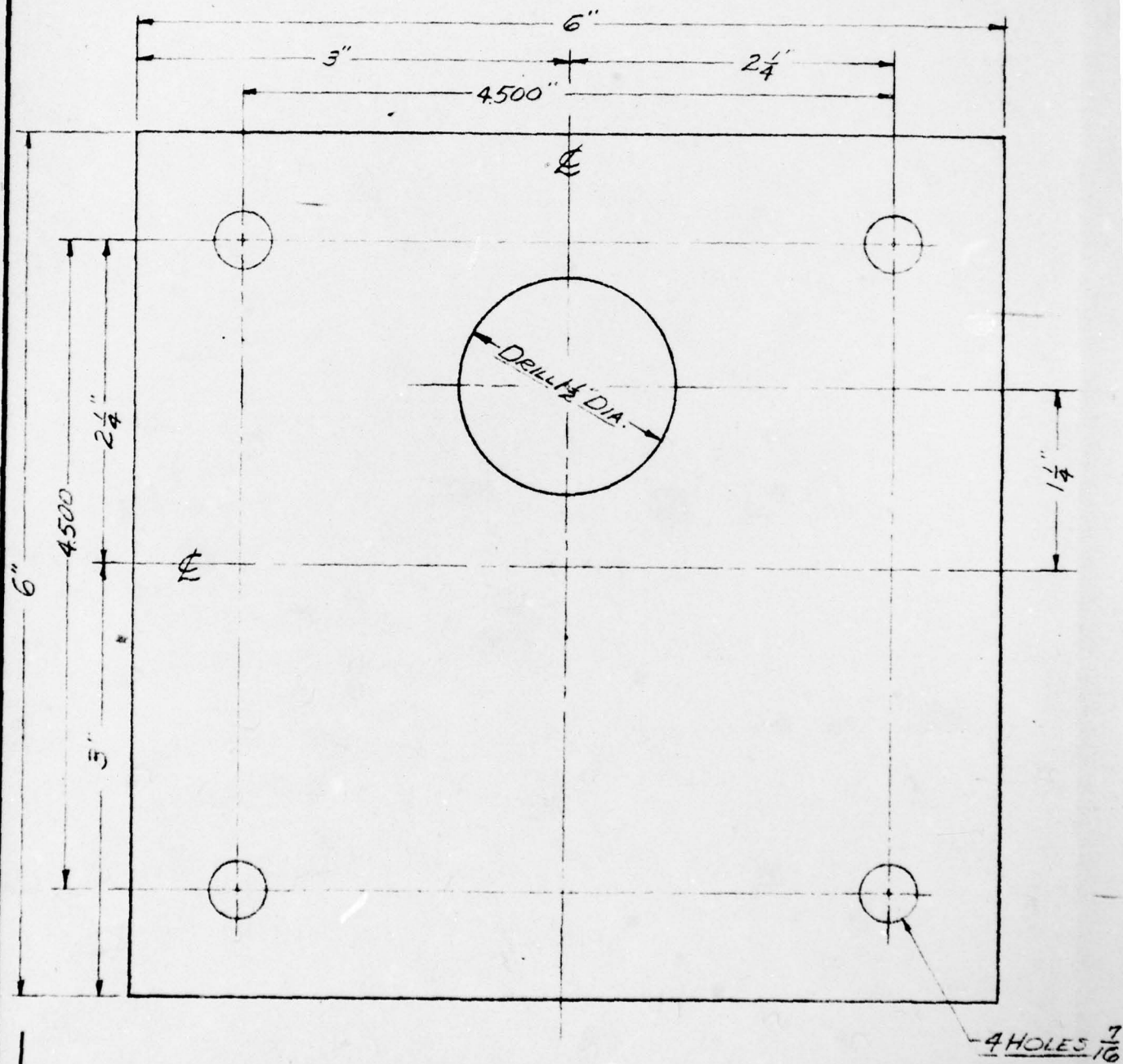
SCALE : $1/2" = 1"$ UNCLASSIFIED

FOR FREESTANDING INTERICE PRESSURE

REVISIONS			HOLMES & NARVER INCORPORATED ENGINEERS 824 S. FIGUEROA ST. LOS ANGELES	
NO.	DATE	DESCRIPTION		
1	3/2/50	CORRECTED NOTATIONS	<u>MOUNT</u> <u>FOR PRESSURE GAUGE</u>	
	3/2/50	AS BUILT AS SHOWN		
			DR. <u>20</u>	CH. <input checked="" type="checkbox"/>
			JOB NO. 840F	DATE 3-28-50
			APPROVED <u>[Signature]</u>	SHEET NO. 5009
				SHEET 2

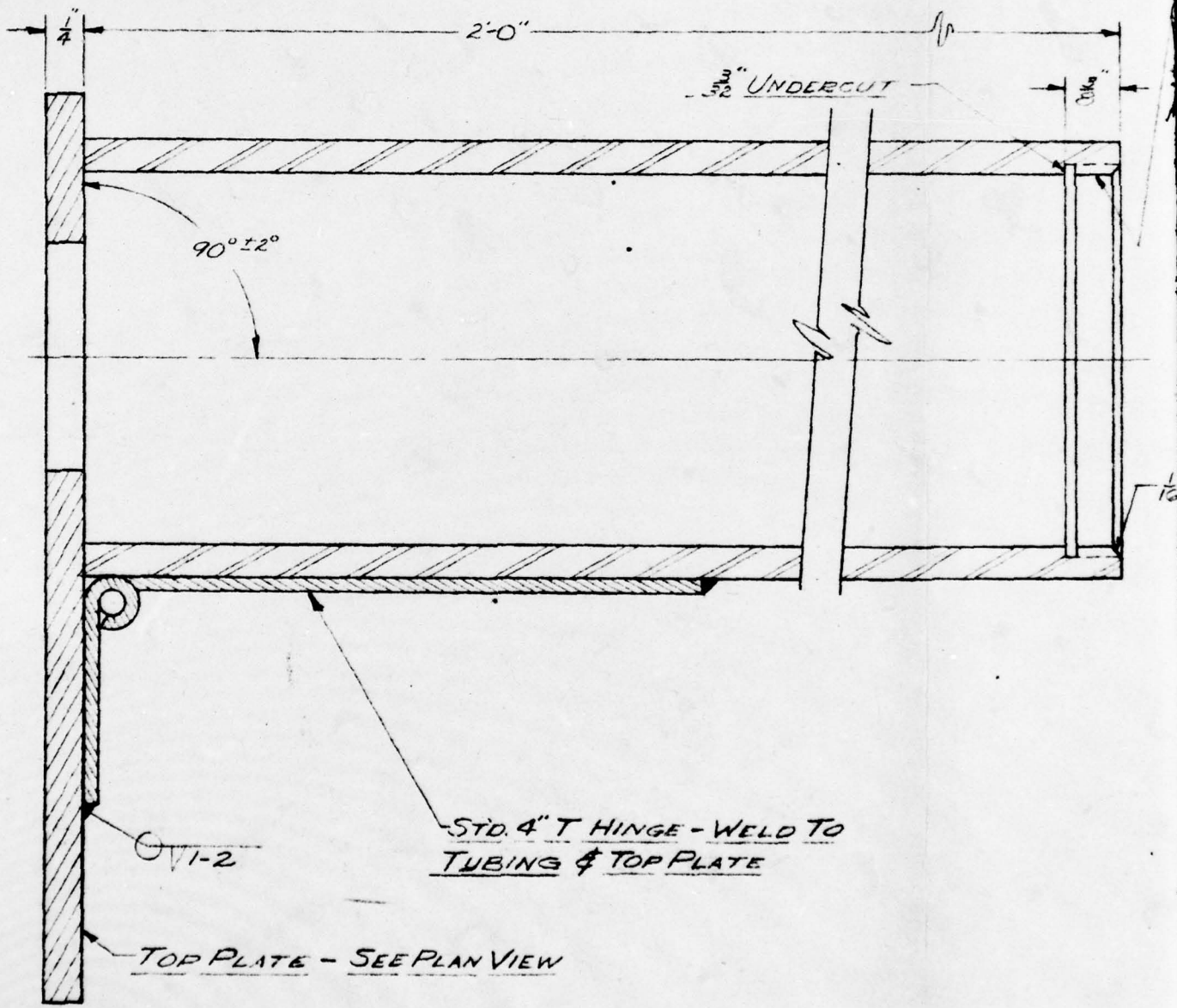
6

REDACTED



PLAN VIEW-TOP PLATE

2 1/8"-12 NF2 THD

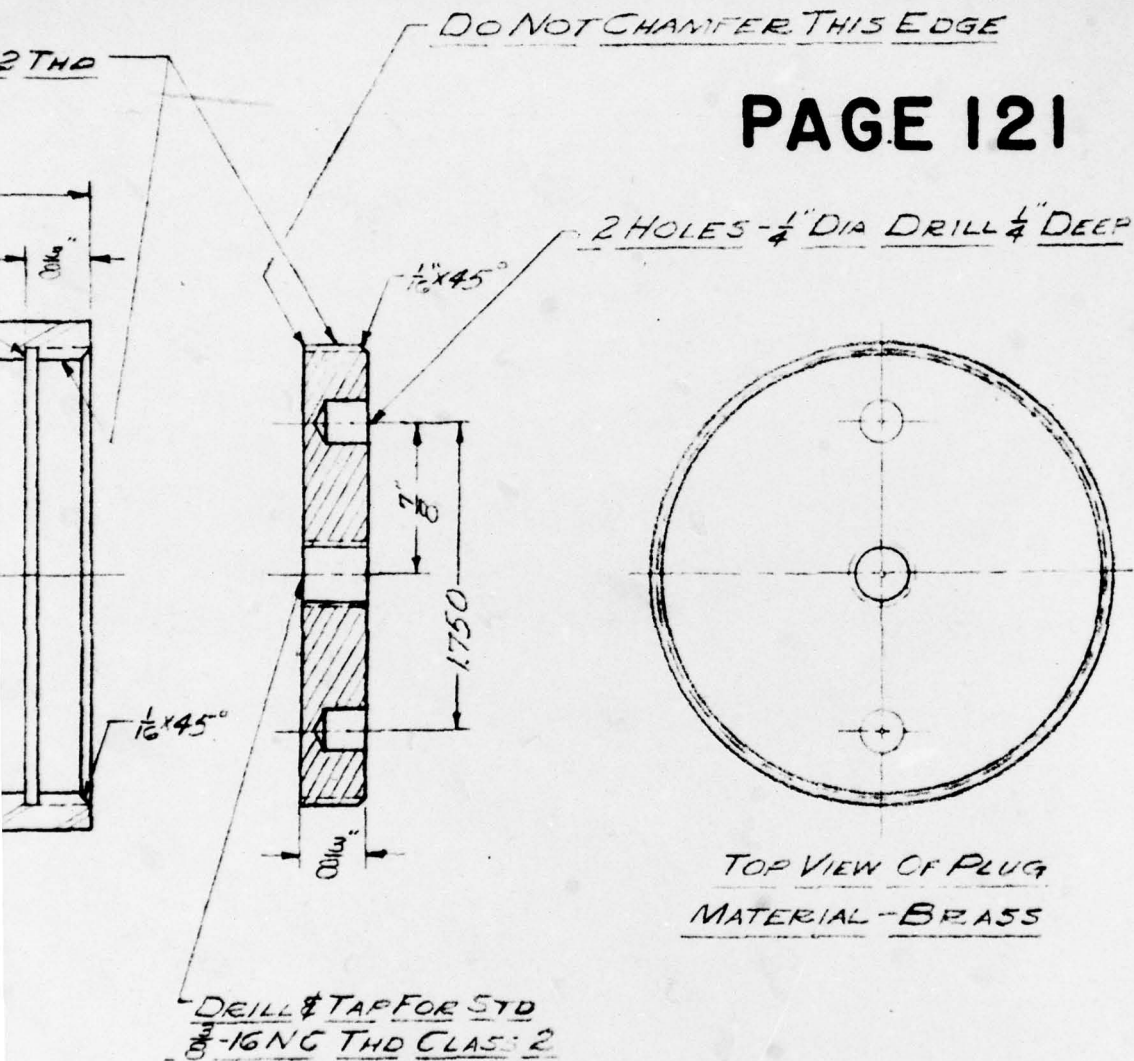


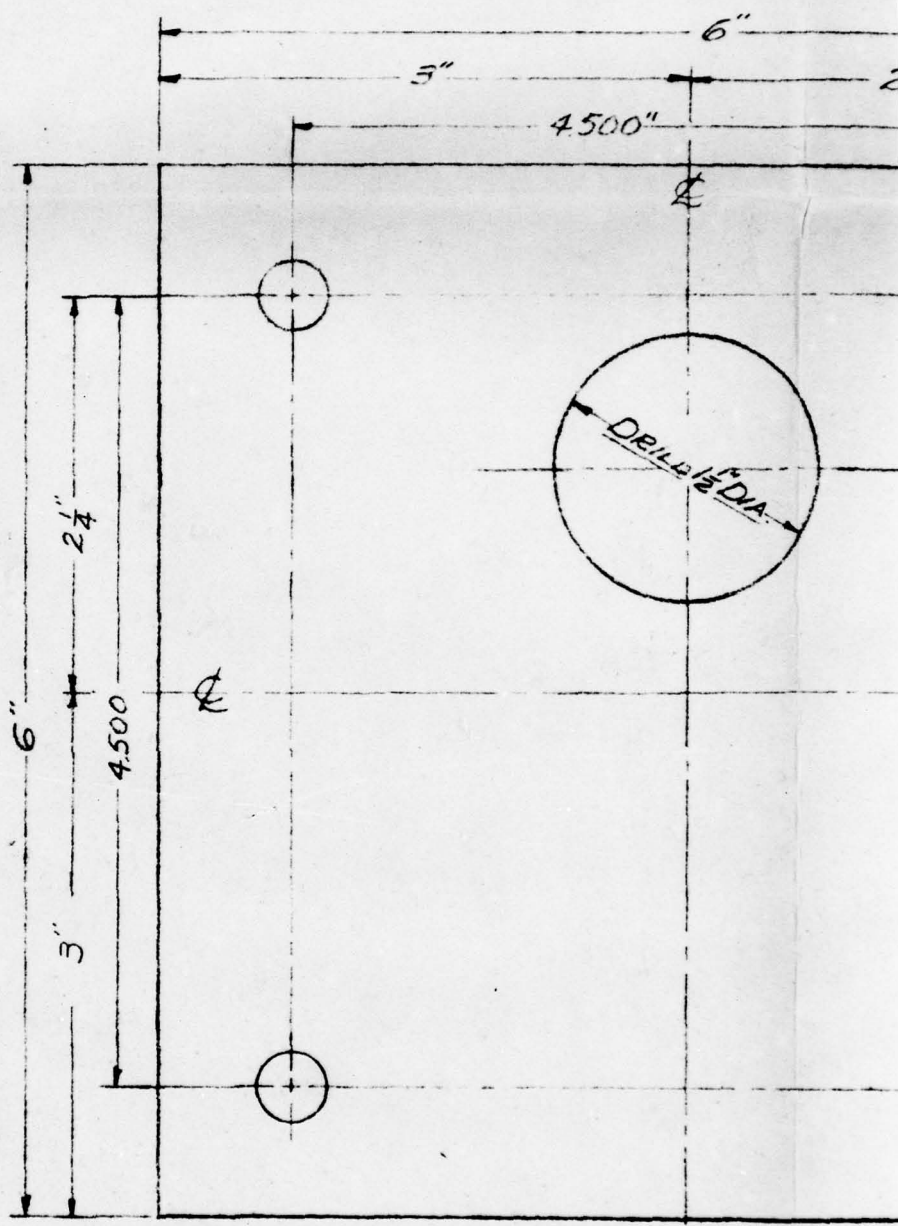
2
DIA DRILL

CROSS SECTION OF BODY

MATERIAL SPECIFICATION

PAGE 121

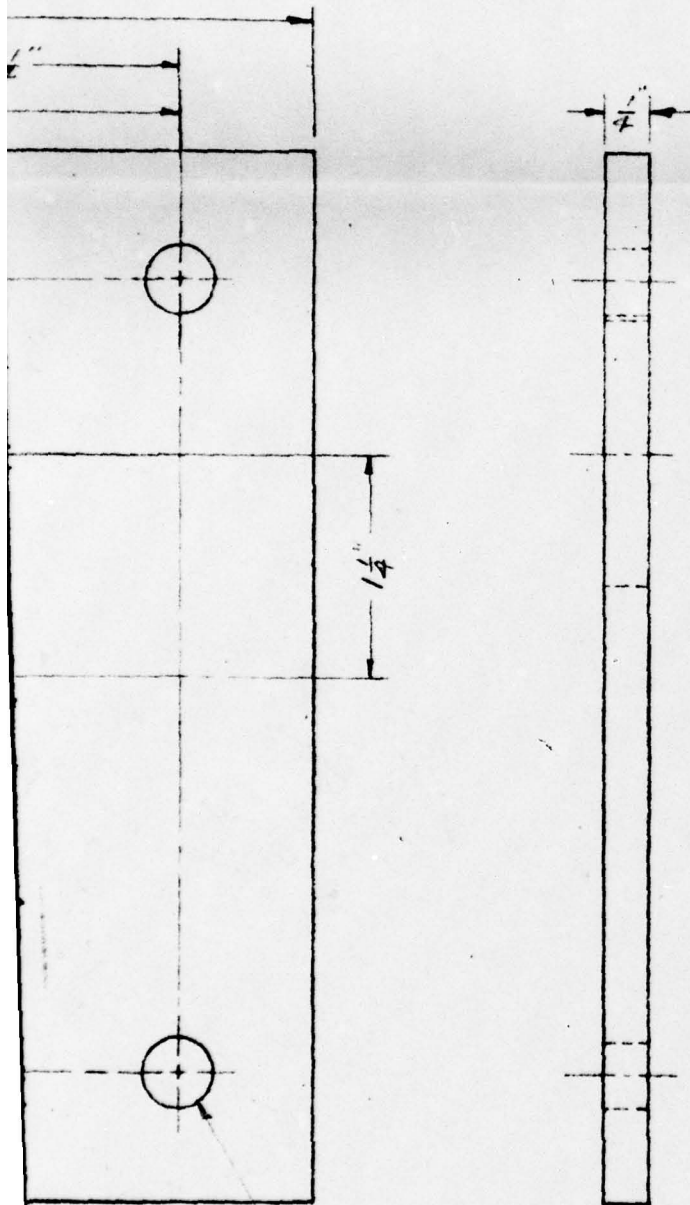




4

INSIDE PLATE
MATERIAL - MILD STEEL

STEEL HINGE
MILD STEEL PLATE (CRS OR HRS)



NOTE:
DECIMAL TOLERANCE ± 0.005 "
FRACTION TOLERANCE $\pm \frac{1}{32}$ "
PLATE STOCK MAY BE TORCH CUT

5 - 4 HOLES $\frac{7}{16}$ " DIA DRILL
(CRS OR HRS)

FIG. A2.90

UNCLASSIFIED
~~RESTRICTED~~

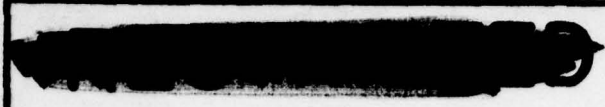
SCALE : FULL SCALE

FOR AIR PRESSURE ABOVE EARTH
COVERED STRUCTURES

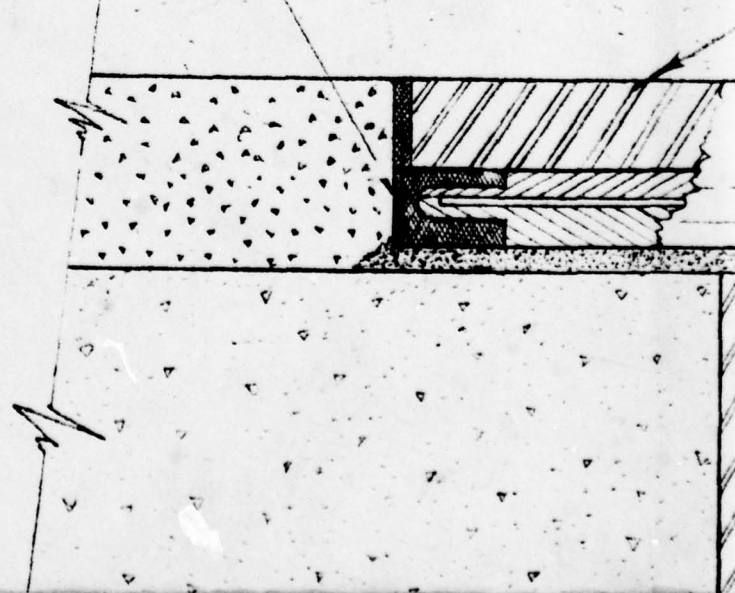
REVISIONS		
NO.	DATE	DESCRIPTION
1	3/22/50	CORRECTED NOTATIONS
	5/6/51	AS BUILT AS SHOWN
		6

HOLMES & NARVER INCORPORATED ENGINEERS 824 S. FIGUEROA ST. LOS ANGELES			
<u>MOUNT</u> FOR PRESSURE GAUGE			
DR. TIGNER	CH. & V.	DATE 3-22-50	SHEET NO.
JOB NO. 840F	APPROVED W. J. Ball		5010

UNCLASSIFIED

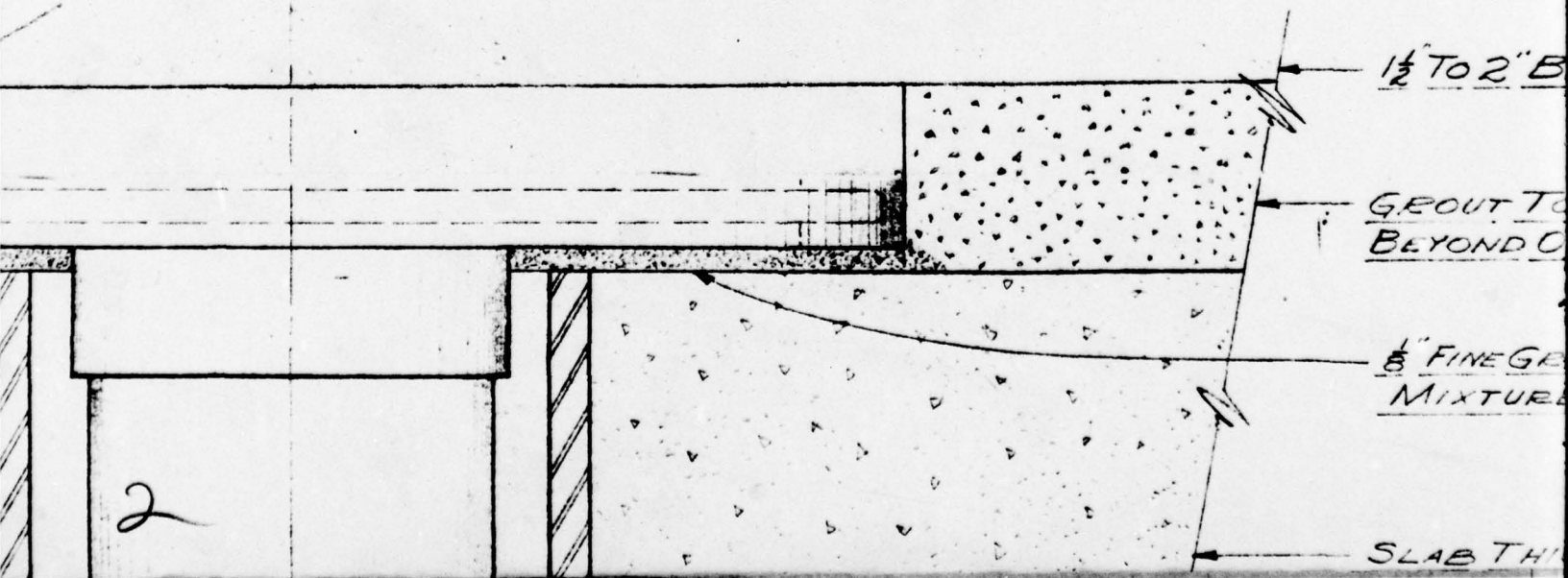


FLANNEL PACKING WITH
ON EDGE OF DIAPHRAGM



TAPE COVERING
GM AS SHOWN

STEEL PLATE - 8 INCH DIA * $\frac{1}{2}$ INCH THICK



PAGE 122

1½ TO 2" BED OF SAND

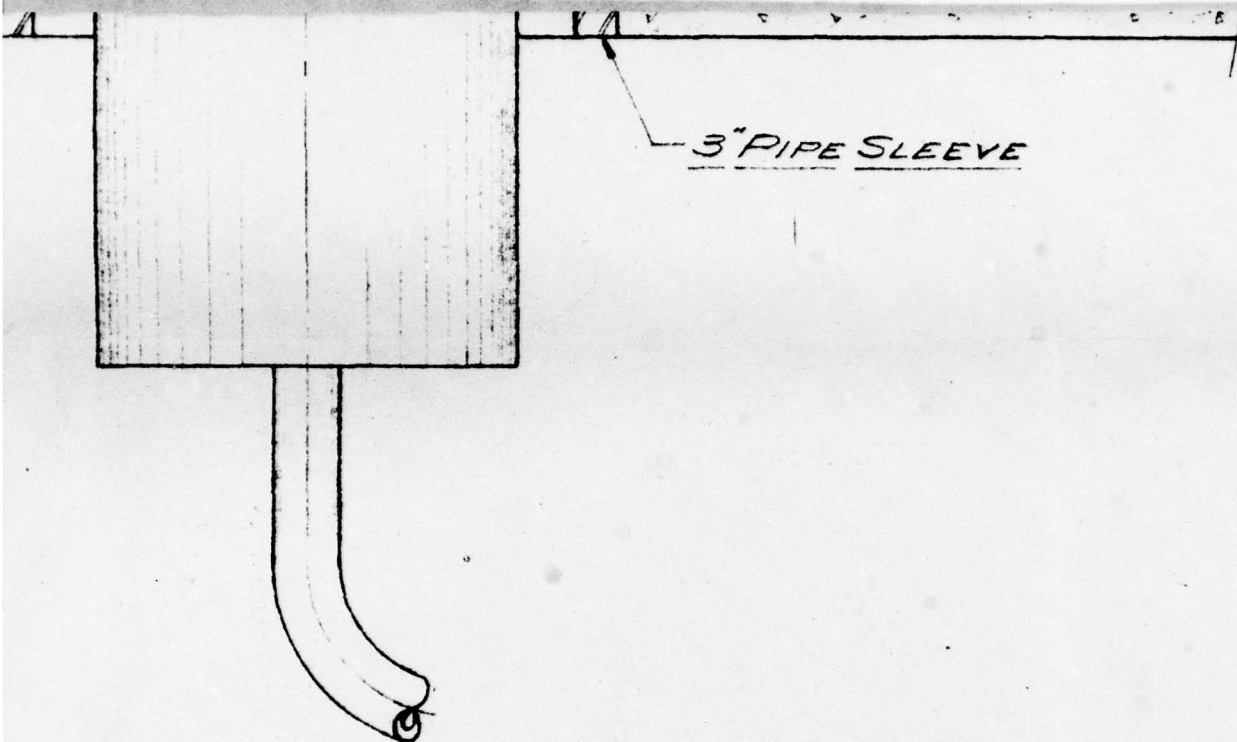
GROUT TO EXTEND NOT LESS THAN 1'-0"
BEYOND OUTSIDE EDGE OF DIAPHRAGM

½" FINE GROUT - AGGREGATE TO PASS 30 MESH
MIXTURE OF 1 TO 1½ BY VOLUME

3

SLAB THICKNESS VARIES

4



5

FIG. A2.91

~~RESTRICTED~~

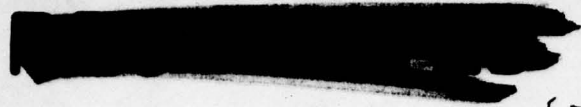
UNCLASSIFIED

SCALE : FULL SCALE

FOR THIN PANELS & SLABS

REVISIONS			HOLMES & NARVER INCORPORATED ENGINEERS 824 S. FIGUEROA ST. LOS ANGELES			
NO.	DATE	DESCRIPTION				
1	3/23/51	CORRECTED NOTATIONS	<u>MOUNT</u> <u>FOR</u> <u>EARTH PRESSURE</u> <u>GAUGE</u>			
2	5/9/51	GENERAL REVISION AC BUILT AS SHOWN				
			DR. THORPE	CH. LV. 390F	DATE 7-4-50	SHEET NO. 5011
			APPROVED A. T. R. 2			

UNCLASSIFIED

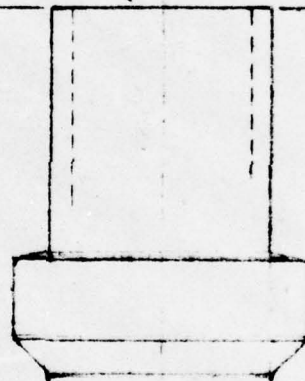


TOP SET FLUSH WITH TOP OF
EARTH, SLAB, OR PANEL FLOOR

8"

VAN

INSIDE



OF INSIDE
LOOR

VARIES

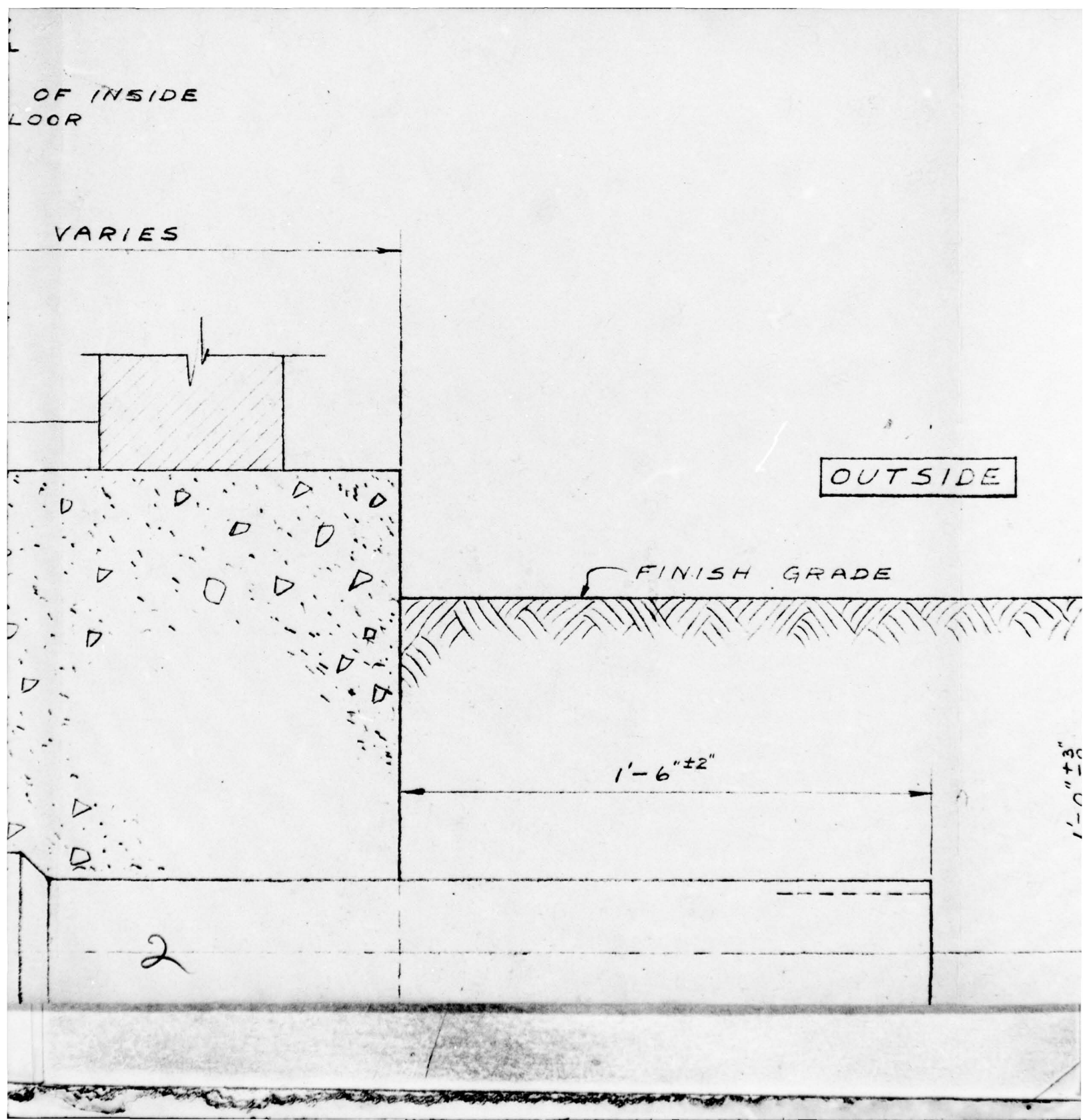
OUTSIDE

FINISH GRADE

1'-6"±2"

2

1'-0"±3"



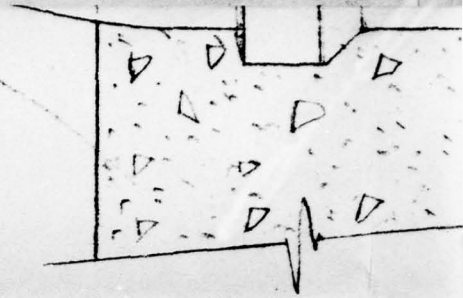
PAGE 123

SIDE

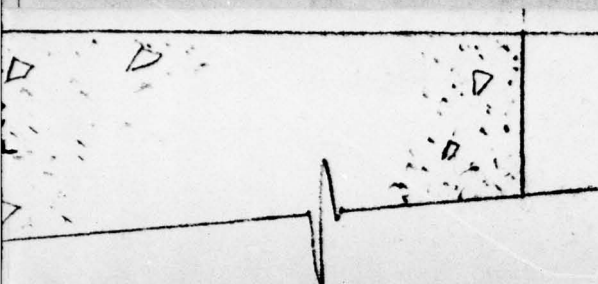
1'-0" ± 3"

3

4" PIPE. (STEEL PIPE, CAST
IRON, CONDUIT, CLAY TILE,
OR TRANSITE MAY BE USED)
TO BE FABRICATED IN THE FIELD



TYPICAL



NOTE

ADAPT PIPE TO SUIT
EACH FOOTING

CAL FOOTING

S-

FIG. A2.92

UNCLASSIFIED

~~RESTRICTED~~

SCALE: 3"=1'-0"

FOR ALL BLDGS 3.2 SERIES

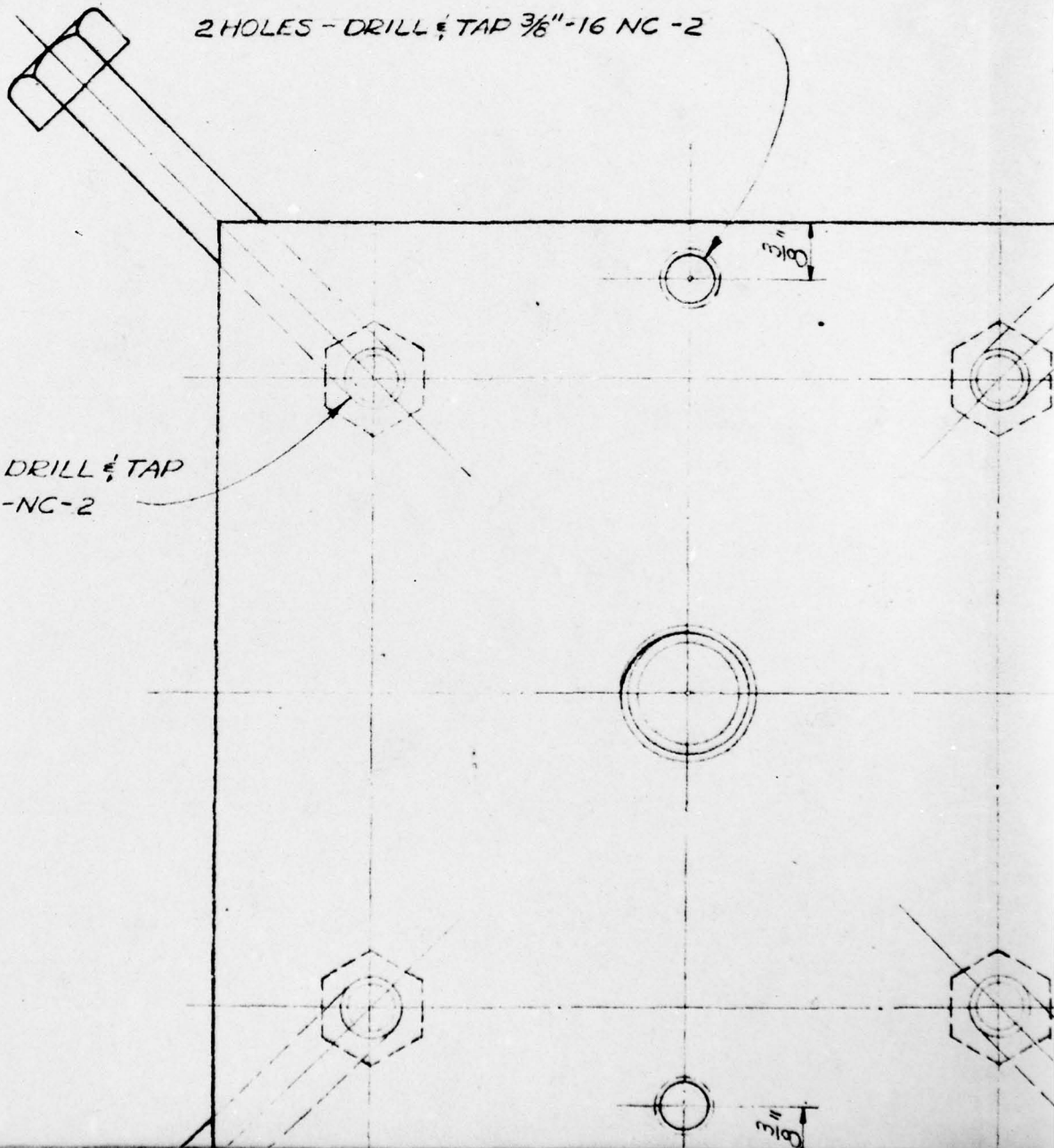
REVISIONS			HOLMES & NARVER INCORPORATED ENGINEERS 824 S. FIGUEROA ST. LOS ANGELES		
NO.	DATE	DESCRIPTION			
1	3/23/50	CORRECTED NOTATIONS	CABLE ENTRANCE SLEEVE		
	5/6/51	AS BUILT AS SHOWN			
			DR. J.F.E.	CH. LV DATE 3-27-50	SHEET NO. 5012
			JOB NO. B40F	APPROVED [Signature]	

UNCLASSIFIED



2 HOLES - DRILL $\frac{1}{8}$ " TAP $\frac{3}{8}$ "-16 NC-2

4 HOLES - DRILL $\frac{1}{8}$ " TAP
 $\frac{3}{8}$ "-16-NC-2



NOTE: ALL MOUNTS THIS TYPE
MODIFIED IN THE FIELD
TO PROVIDE $1\frac{1}{2}$ " PIPE NIPPLE

45° WHERE PRACTICAL

$\frac{1}{2}$ " STD PIPE THD
PROVIDE $\frac{1}{2}$ " STD PIPE
CAP

$\frac{1}{16}$ "

4.000"

2"

3"

6"

3"

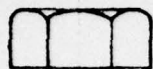
$\frac{1}{2}$ " STD BLACK PIPE

$\frac{3}{8}$ " LOCK NUT

4 - $\frac{3}{8}$ " x $6\frac{1}{2}$ " F
ASSEMBLE

2

PAGE 124

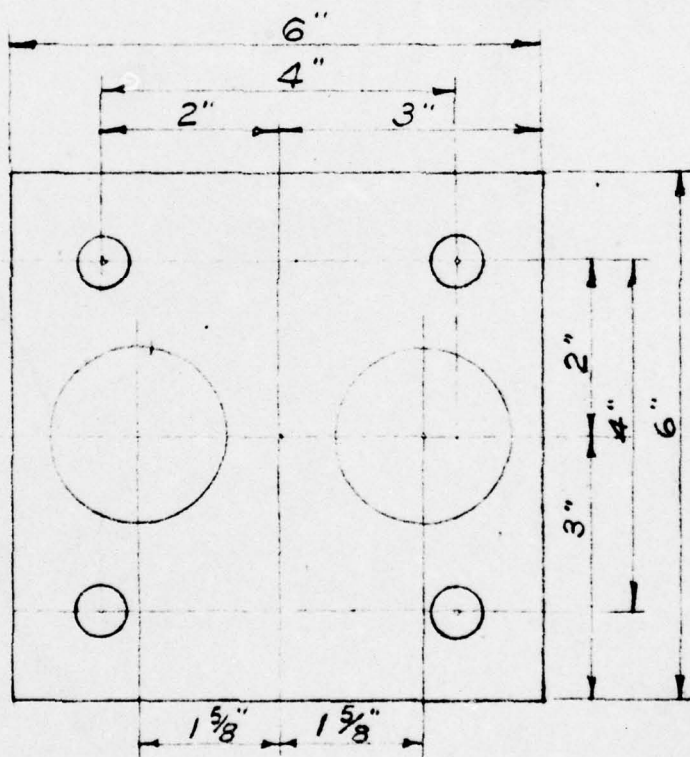
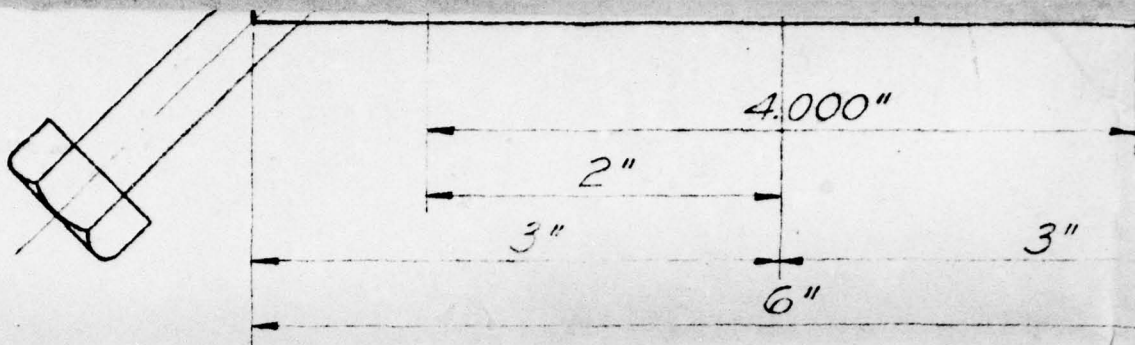


PS
PPLE

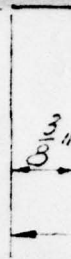
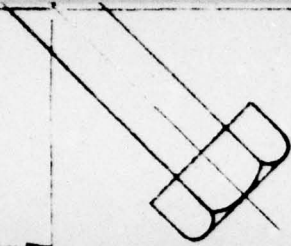
NUT

$\frac{3}{8}$ " x $6\frac{1}{2}$ " HEX. HEAD BOLTS
ASSEMBLE IN FIELD

3

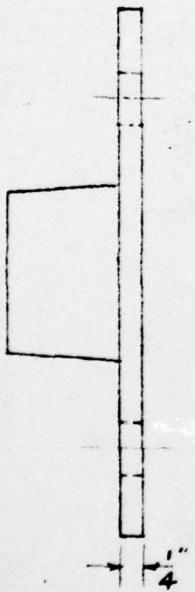


SCALE: HALF SIZE
DETAIL FOR 2 NIPPLES 5013A



$4\frac{1}{16}$ "

INSIDE PLATE
MATERIAL-MILD STEEL (CRS OR HRS)



NOTES

DECIMAL TOLERANCE ± 0.005
 FRACTIONAL TOLERANCE $\pm \frac{1}{16}$
 PLATE STOCK MAY BE TORQUE

013 A

S

FIG. A2.93

4 1/16"



UNCLASSIFIED

~~RESTRICTED~~

SCALE : FULL SCALE

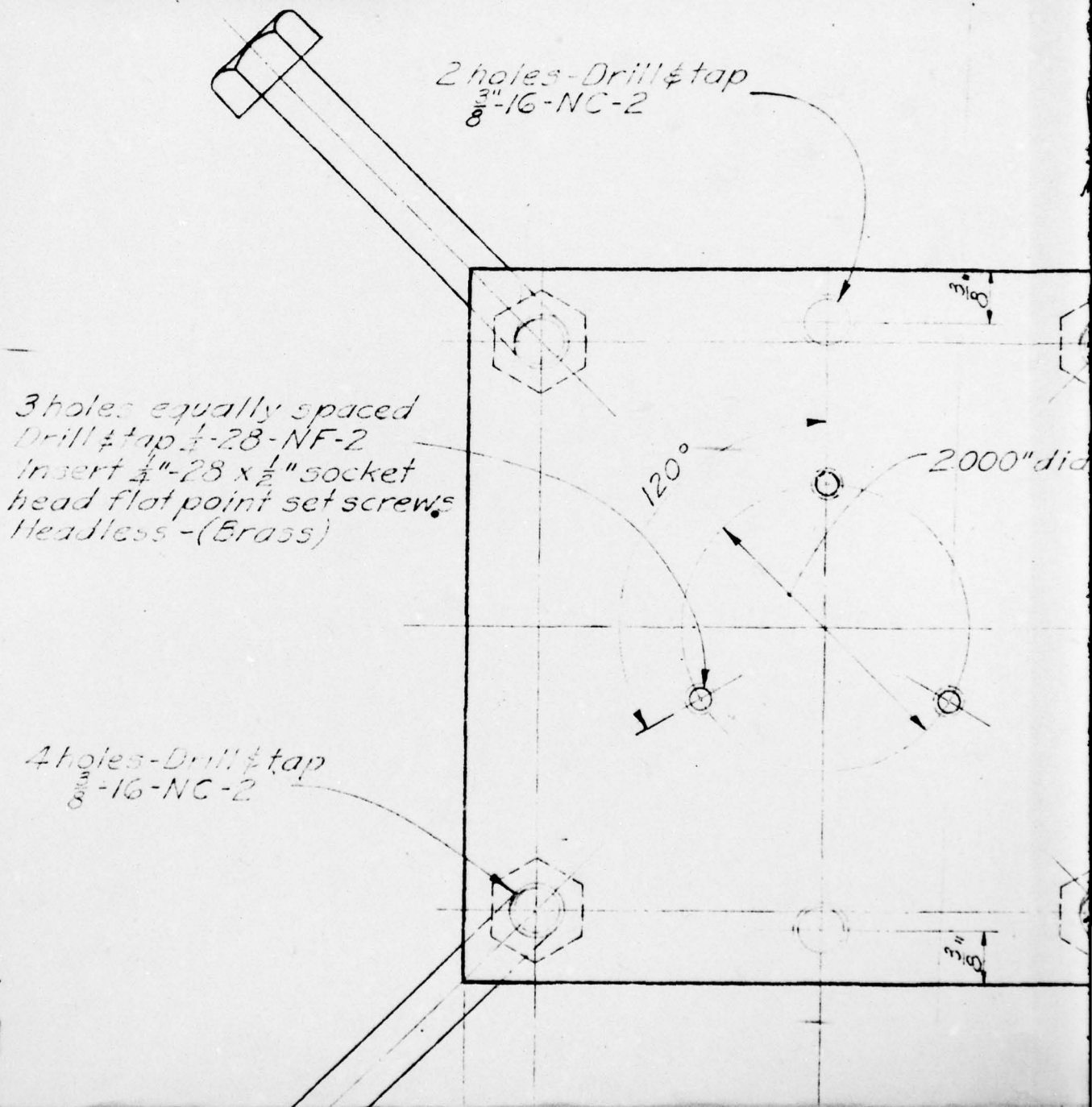
FOR POURED IN PLACE CONCRETE

± 0.005"
ANCE ± 1/32"
BE TORCH CUT

6

REVISIONS			HOLMES & NARVER INCORPORATED ENGINEERS 824 S. FIGUEROA ST. LOS ANGELES	
NO.	DATE	DESCRIPTION		
1	3/27/50	CORRECTED NOTATIONS	<u>MOUNT</u> <u>FOR</u> <u>DISPLACEMENT</u> <u>GAUGE</u>	
2	5/8/50	GENERAL REVISION AS BUILT AS SHOWN		
			DR. L.W.K.	CH. LV 3-29-50
			JOB NO. 840F	APPROVED [Signature]
			SHEET NO. 5013	

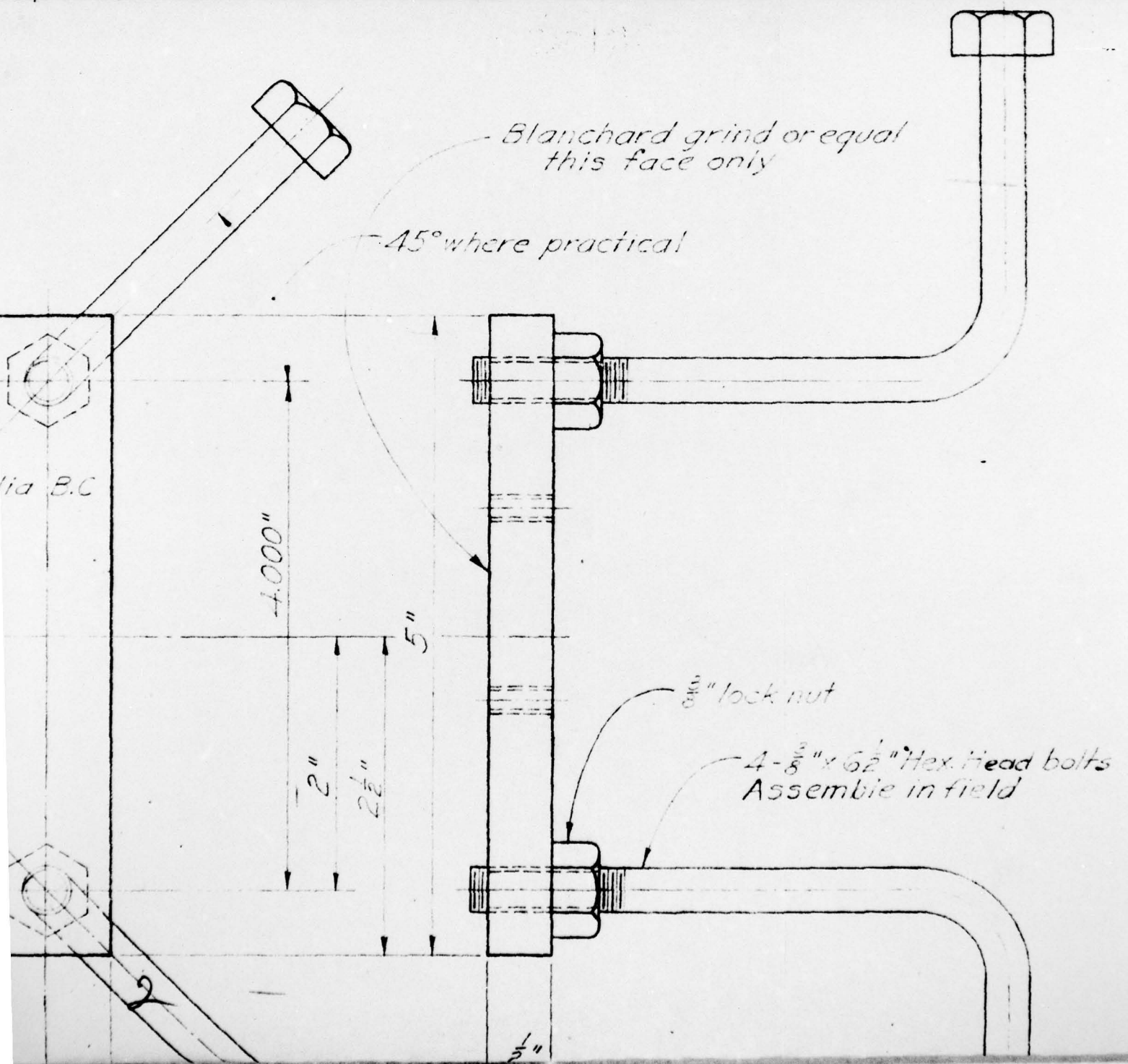
UNCLASSIFIED



2 holes-Drill & tap
 $\frac{3}{8}$ "-16-NC-2

3 holes equally spaced
Drill & tap $\frac{1}{4}$ "-28-NF-2
Insert $\frac{1}{4}$ "-28 x $\frac{1}{2}$ " socket
head flat point set screws
Headless -(Brass)

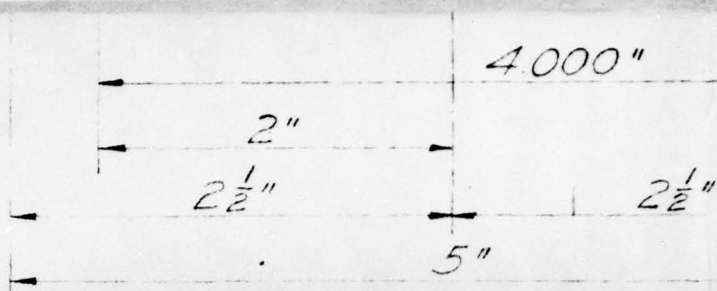
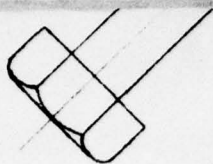
4 holes-Drill & tap
 $\frac{3}{8}$ "-16-NC-2



PAGE 125

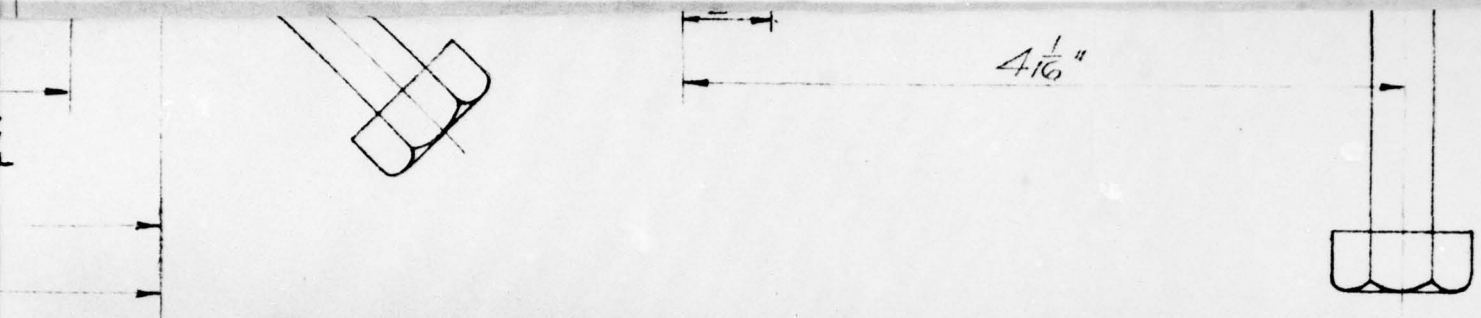
lead bolts
ld

3



M

4



INSIDE PLATE
MATERIAL - MILD STEEL (CRS OR HRS)

NOTE
Decimal tolerance ± 0.005
Fraction tolerance $\pm \frac{1}{32}$ "
Plate stock may be torch

5

FIG. A2.94

AD-A074 619

AMMANN AND WHITNEY NEW YORK

F/G 18/3

SCIENTIFIC DIRECTOR'S REPORT OF ATOMIC WEAPON TESTS AT ENIWETOK--ETC(U)
NOV 51

UNCLASSIFIED

AEC-WT-60(REF)-PT-4

NL

2 OF 2

AD
A074619

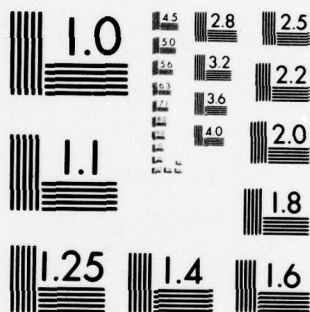


END

DATE
FILMED

11-79

DDC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

UNCLASSIFIED

~~RESTRICTED~~

SCALE : FULL SCALE

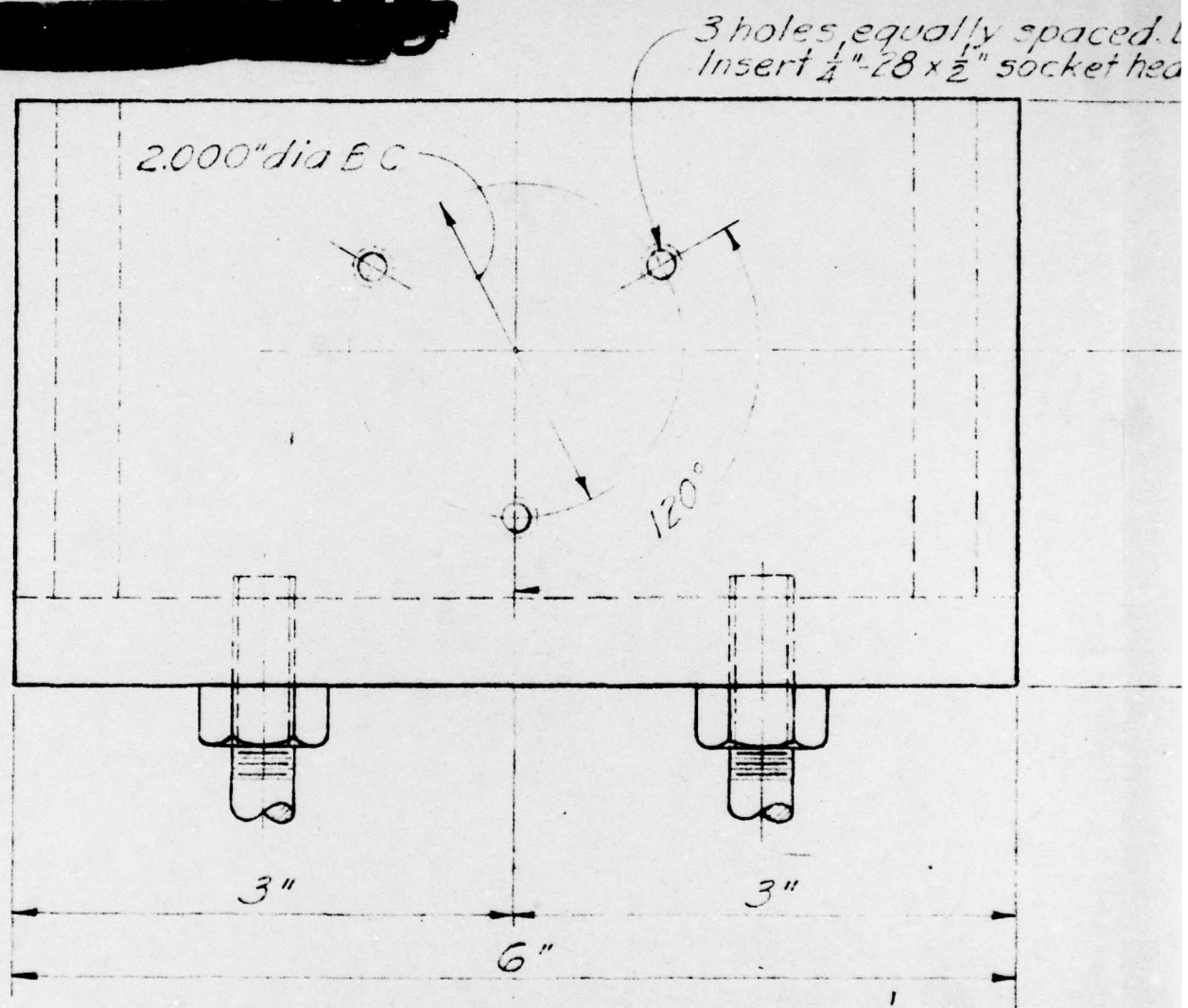
FOR POURED IN PLACE CONCRETE

REVISIONS			HOLMES & NARVER INCORPORATED ENGINEERS 824 S. FIGUEROA ST. LOS ANGELES		
NO.	DATE	DESCRIPTION			
1	3/23/51	CORRECTED NOTATIONS	<u>MOUNT</u> <u>FOR</u> <u>ELECTRONIC</u> <u>ACCELEROMETER</u>		
	5/6/51	AS BUILT AS SHOWN			
			DR. LWK	CH. BY DATE 3-28-50	SHEET NO. 5014
			JOB NO. 840F	APPROVED <i>[Signature]</i>	

± 0.005
 $\pm \frac{1}{32}"$
torch cut

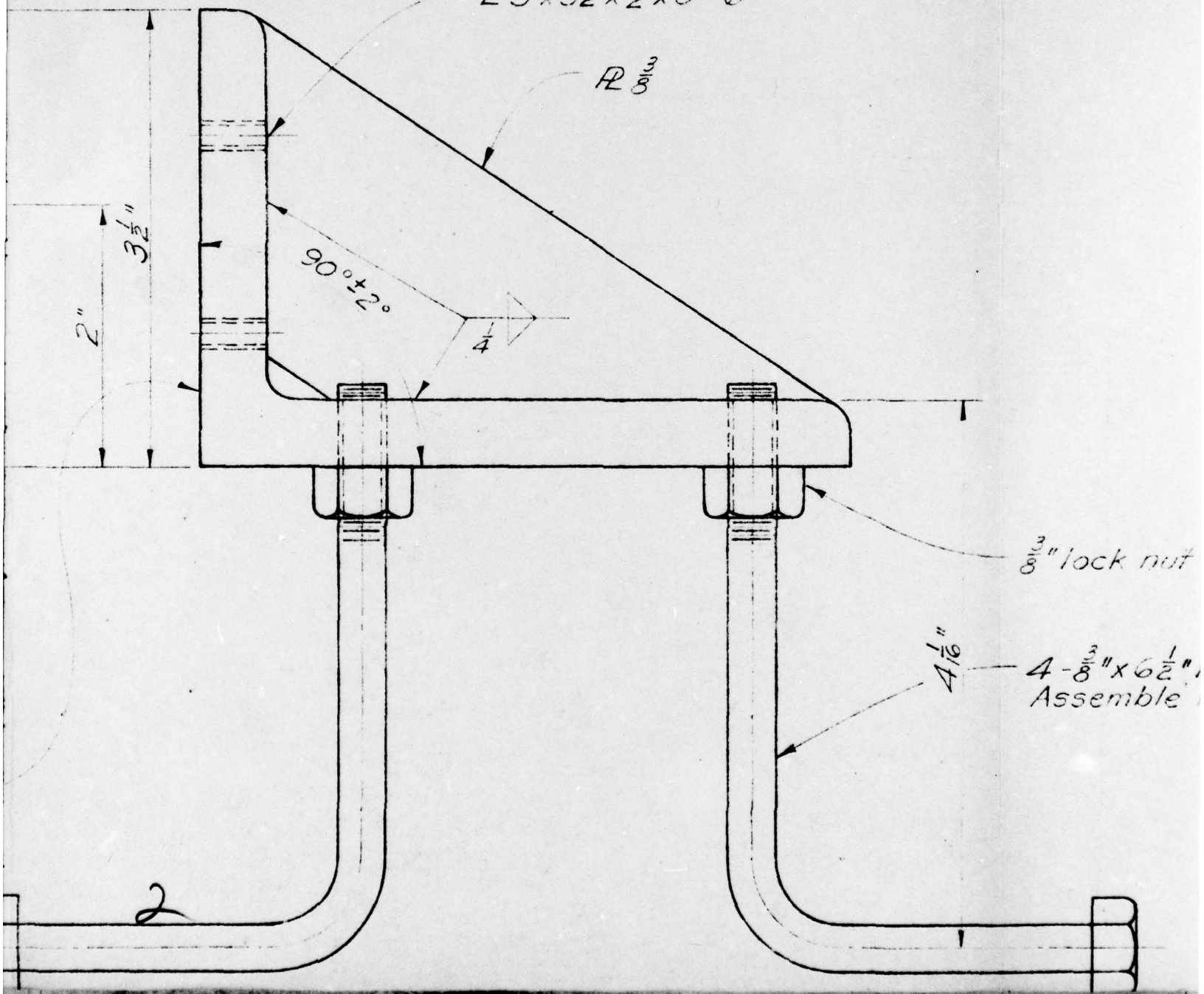
6

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Blanchard grind or equal
this face only

Drill & tap $\frac{1}{4}$ "-28-NF-2
head flat point set screws — Headless — (Brass)
L 5" x $3\frac{1}{2}$ " x $\frac{1}{2}$ " x 0'-6"



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"lock nut

*4- $\frac{3}{8}$ " x $6\frac{1}{2}$ " Hex. Head bolts
Assemble in field*

3



45° where practical

2 holes - Drill # top $\frac{3}{8}$ " 16-NC-2

INSIDE CLIP ANGLE

MATERIAL - MILD STEEL (CRS OR HRS)

NOTE

Decimal tolerance $\pm 0.005"$

Fraction tolerance $\pm \frac{1}{32}"$

Plate stock may be torch cut

4

FIG. A2.95

Technical drawing of a square plate with four mounting holes and four diagonal bolts. The plate is 3.000 inches square. The mounting holes are 1/4 inch in diameter and are spaced 2 1/2 inches apart. The diagonal bolts are 1/2 inch in diameter and are spaced 3 inches apart. The drawing includes dimensions for the plate, holes, and bolts.

4 holes - Drill & tap $\frac{3}{8}$ -16-NC-2

Dimensions:

- Plate side: 3.000"
- Mounting hole diameter: $\frac{1}{4}$ "
- Mounting hole spacing: $2\frac{1}{2}$ "
- Diagonal bolt diameter: $\frac{1}{2}$ "
- Diagonal bolt spacing: 3"
- Plate thickness: 5"

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SCALE : FULL SCALE

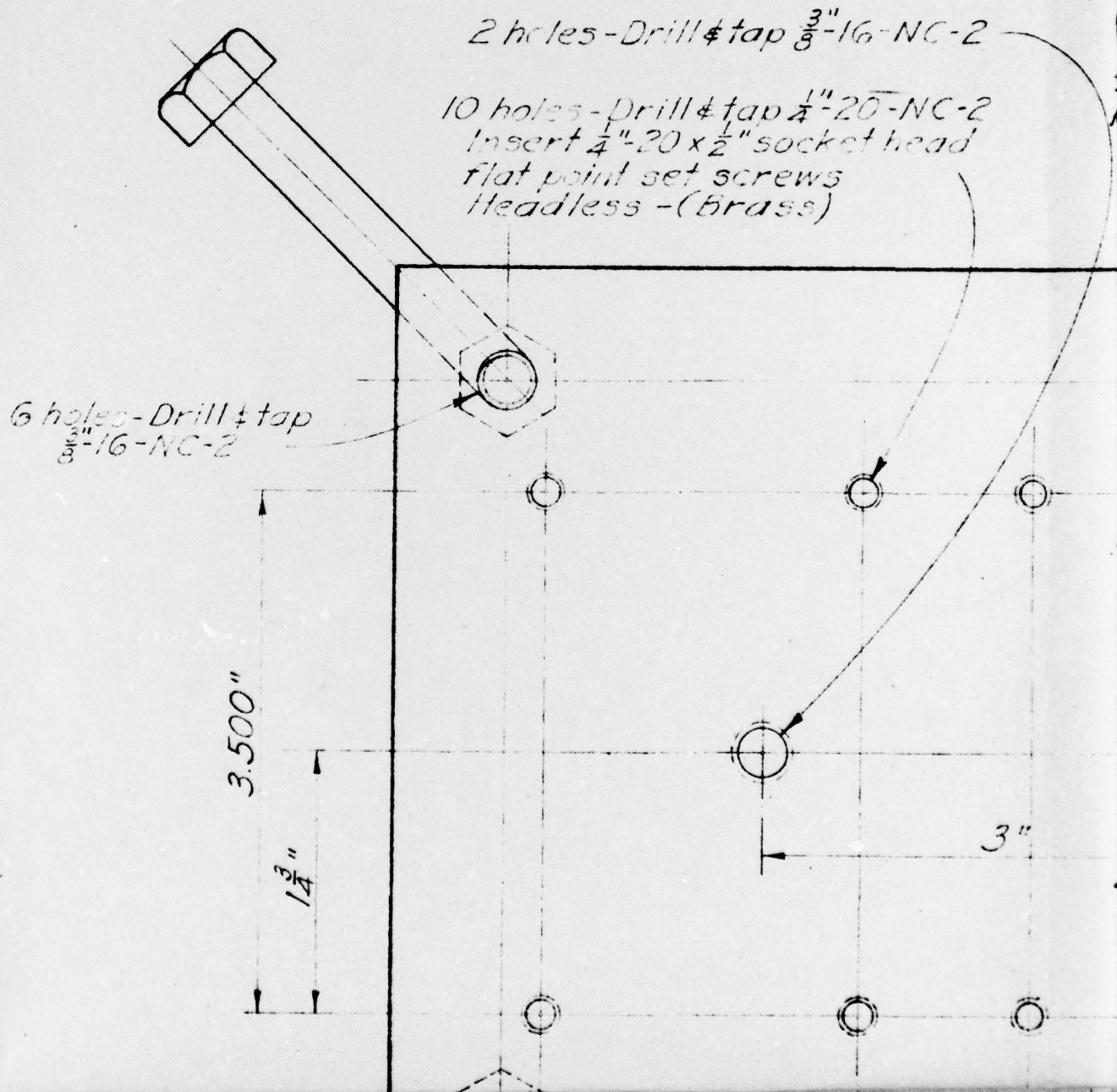
FOR POURED IN PLACE CONCRETE

REVISIONS			HOLMES & NARVER INCORPORATED ENGINEERS 824 S. FIGUEROA ST. LOS ANGELES		
NO.	DATE	DESCRIPTION			
1	2/23/51	CORRECTED NOTATIONS	<u>MOUNT</u> FOR <u>ELECTRONIC</u> <u>ACCELEROMETER</u>		
	5/1/51	AS BUILT AS SHOWN			
			DR. L.W.K.	CH. LV DATE 3-30-50	SHEET NO. 5015
			JOB NO. 840F	APPROVED <i>[Signature]</i>	

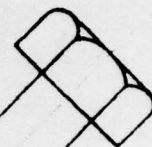
6

UNCLASSIFIED

[REDACTED]



3 holes equally spaced
Drill & tap $\frac{1}{4}$ "-28-NF-2
Insert $\frac{1}{4}$ "-28 x $\frac{1}{2}$ " socket
head flat point set screws
Headless-(Brass)



45° wh

5.000"

6 $\frac{1}{2}$ "

3"

2000"dia B C

120°

4.125"

2 $\frac{1}{2}$ "

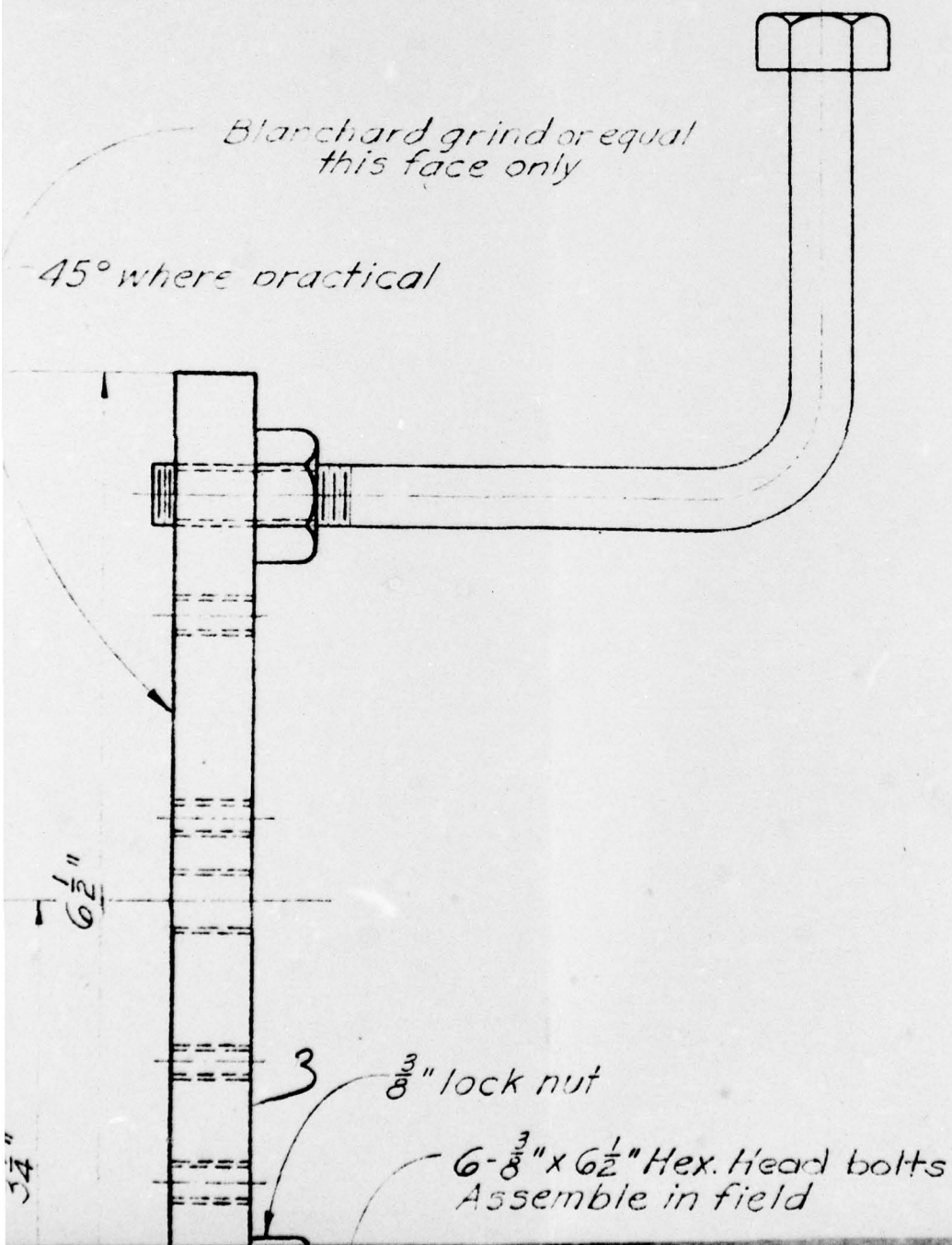
3 $\frac{1}{4}$ "

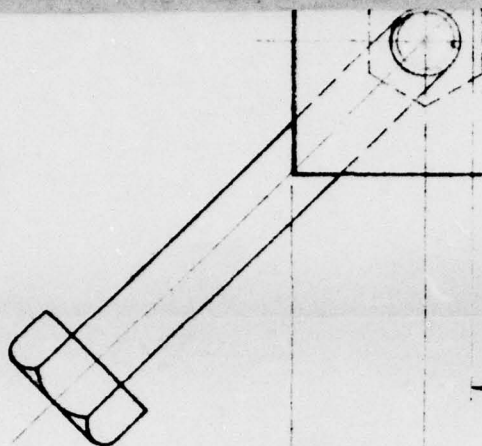
2

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*Blanchard grind or equal
this face only*

45° where practical





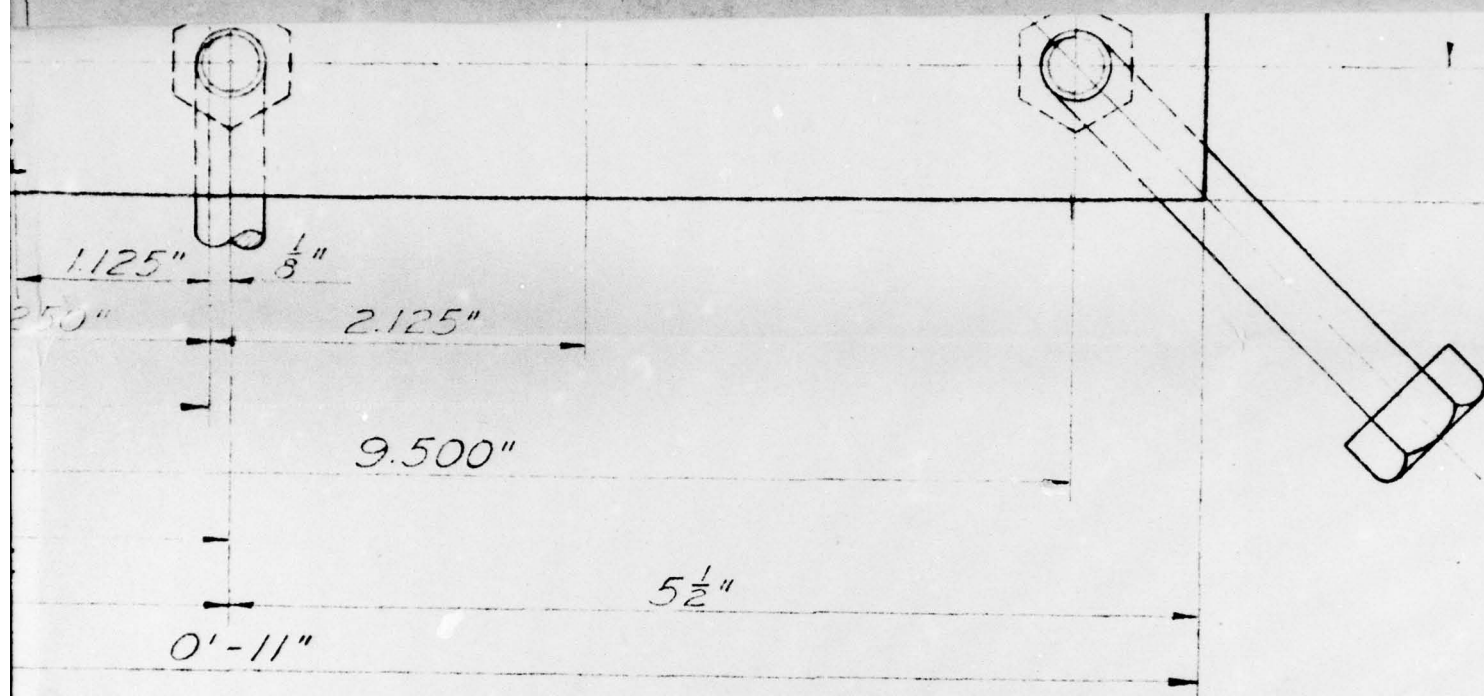
1.12
2.250"

4.375"

4 $\frac{3}{4}$ "

5 $\frac{1}{2}$ "

4

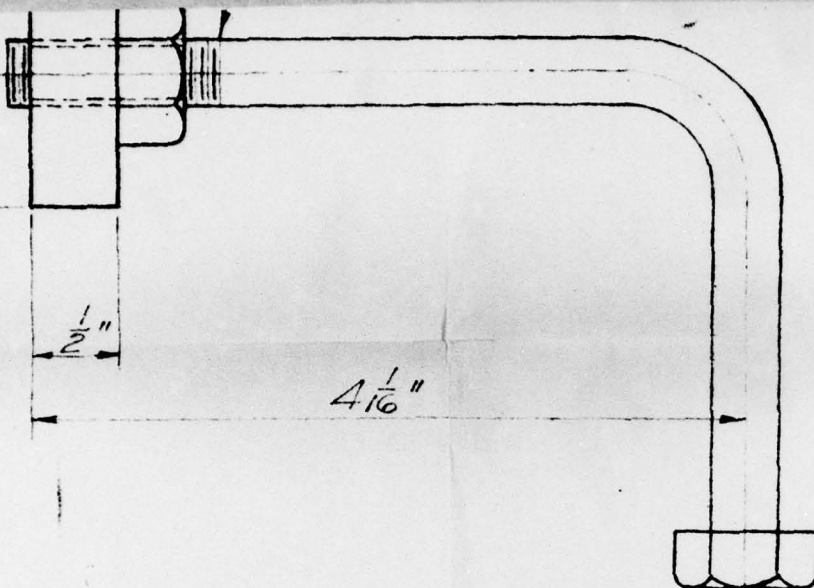


INSIDE PLATE
MATERIAL - MILD STEEL (CRS OR HRS)

NOTE

Decimal tolerance ± 0.00
 Fraction tolerance $\pm \frac{1}{32}$
 Plate stock may be forced

5 **FIG. A2.96**



UNCLASSIFIED

~~RESTRICTED~~

SCALE: FULL SCALE

FOR POURED IN PLACE CONCRETE

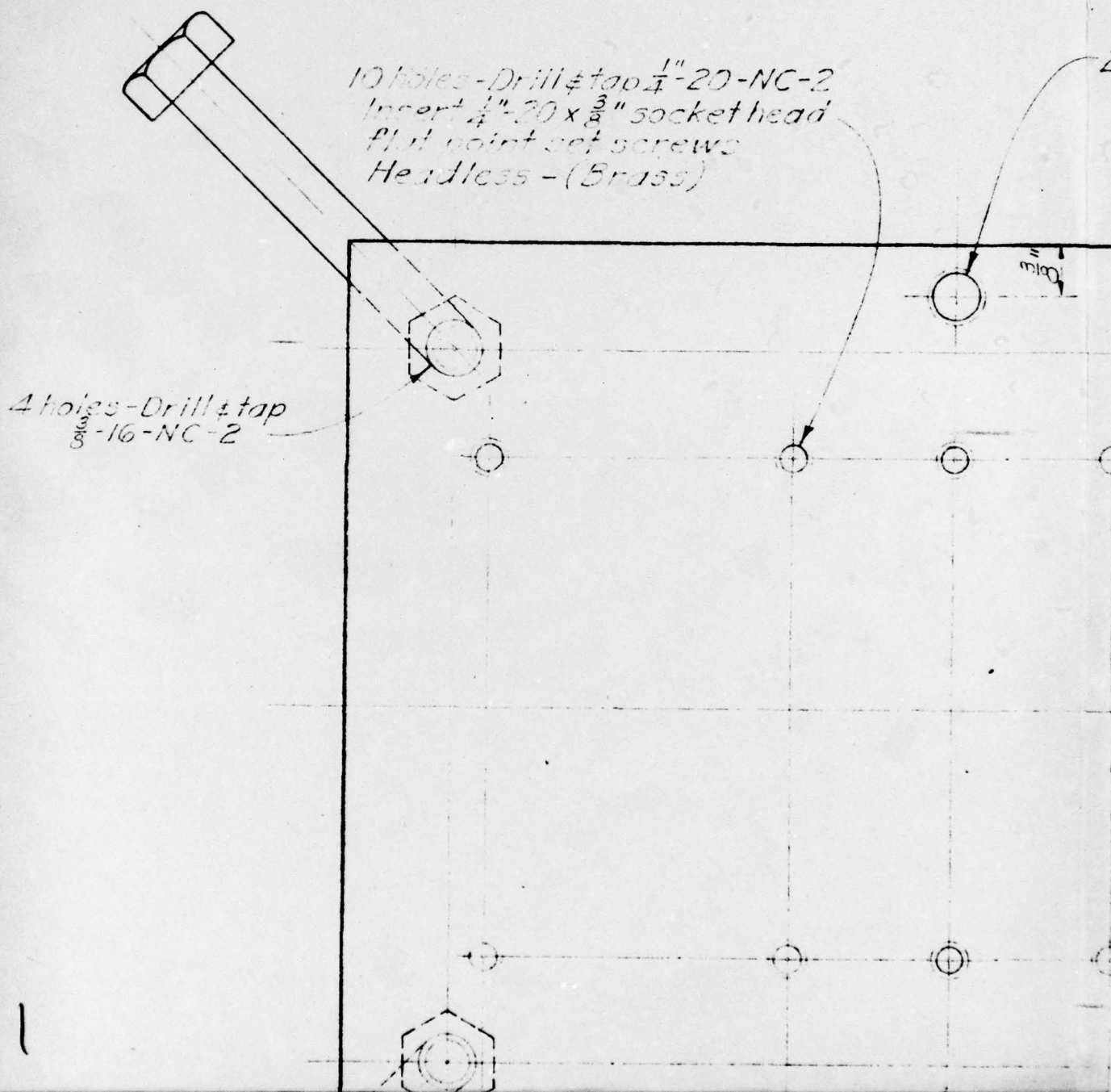
REVISIONS			HOLMES & NARVER INCORPORATED ENGINEERS 824 S. FIGUEROA ST. LOS ANGELES	
NO.	DATE	DESCRIPTION		
1	3/23/50	CORRECTED NOTATIONS	<u>MOUNT</u> FOR SELF RECORDING AND ELECTRONIC ACCELEROMETER	
	5/6/50	AS BUILT AS SHOWN		
DR.	CH. LV	DATE	SHEET NO.	
L.W.K.		3-27-50	5016	
JOB NO.	APPROVED			
840F				

ce $\pm 0.005"$
 nce $\pm \frac{1}{32}"$
 be torch cut

6

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[REDACTED]



2 holes - Drill & tap $\frac{3}{8}$ "-16-NC-2

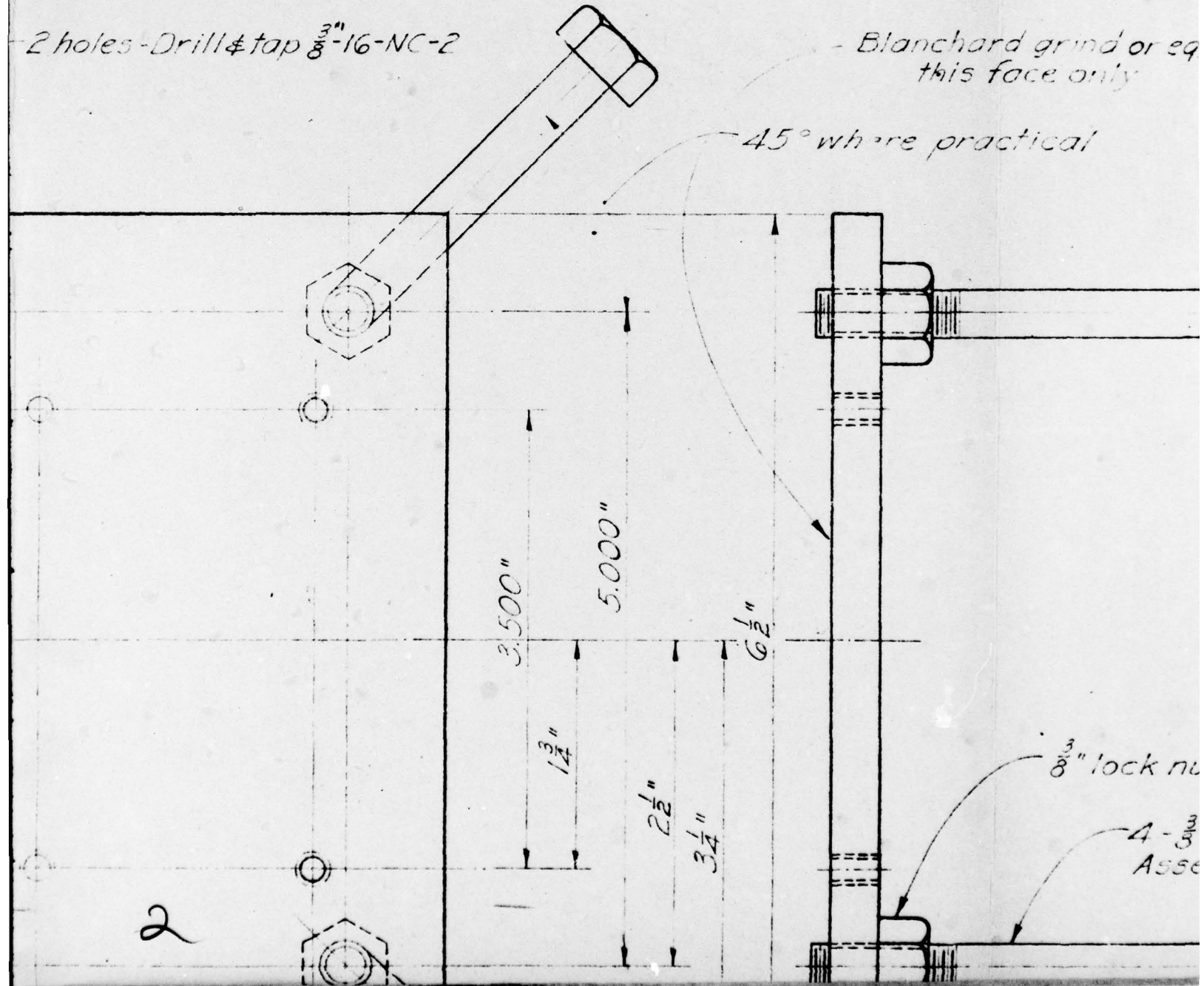
- Blanchard grind or eq
this face only

45° where practical

2

$\frac{3}{8}$ " lock nut

4 - 5/16"
Asse



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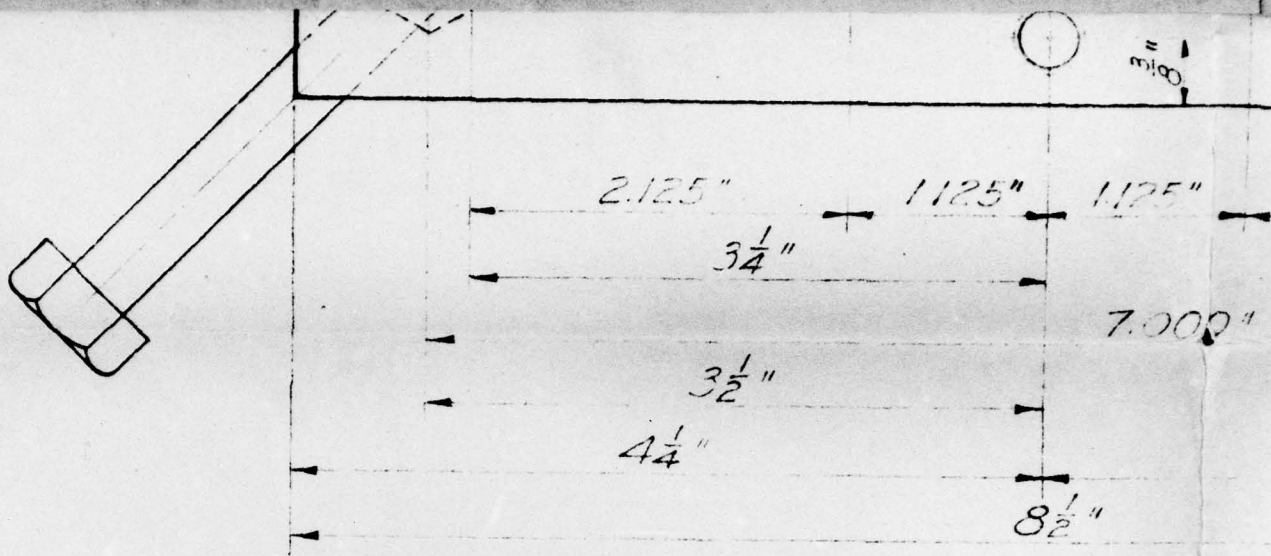


equal

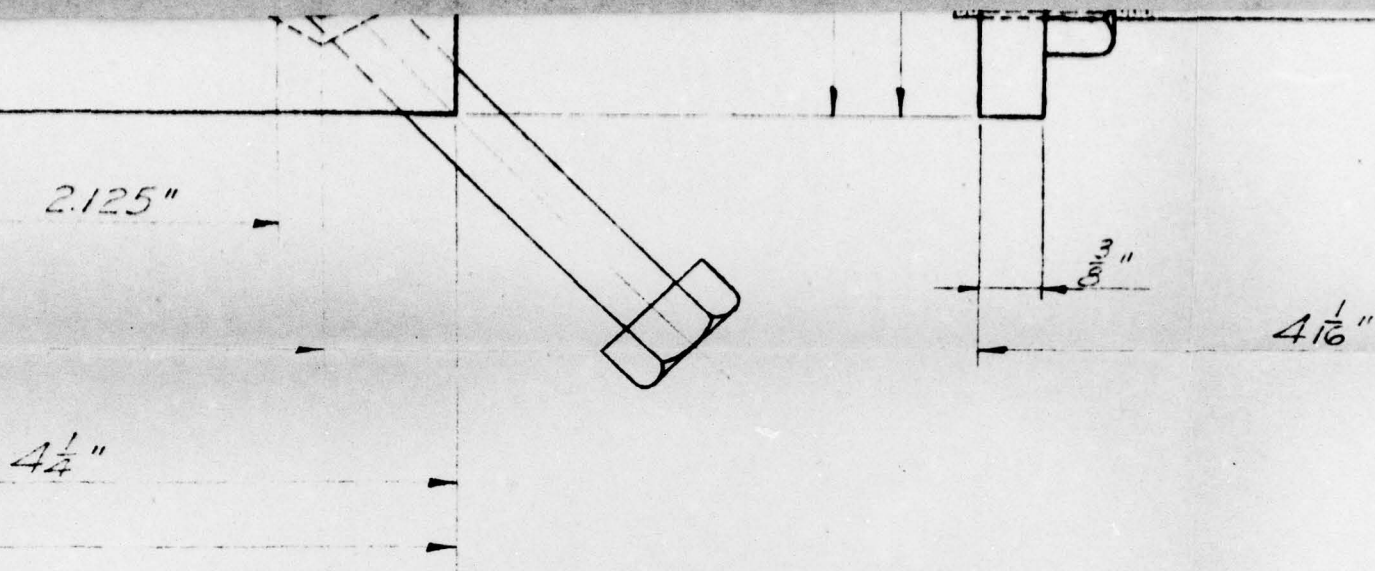
nut

$\frac{3}{8}$ " x $6\frac{1}{2}$ " Hex. Head bolts
assemble in field

3



4



INSIDE PLATE

MATERIAL - MILD STEEL (CRS OR HRS)

NOTE

Decimal tolerance $\pm 0.005''$

Fraction tolerance $\pm \frac{1}{32}''$

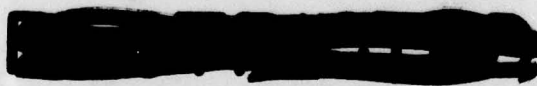
Plate stock may be torch cut

5

FIG. A2.97



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SCALE : FULL SCALE

FOR POURED-IN-PLACE CONCRETE

REVISIONS			HOLMES & NARVER INCORPORATED ENGINEERS 824 S. FIGUEROA ST. LOS ANGELES	
NO.	DATE	DESCRIPTION		
1	3/23/51	CORRECTED NOTATIONS	<u>MOUNT</u> <u>FOR</u> <u>SELF-RECORDING</u> <u>ACCELEROMETER</u>	
	5/4/51	AS BUILT AS SHOWN		
			DR. L.W.K.	CH. LV. APPROVED
			DATE 3-28-50	SHEET NO. 5017
			JOB NO. 840F	

0.005"
"
rch cut

6

UNCLASSIFIED

~~RESTRICTED~~

OUTSIDE OF WALL

1

OF WALL OR COLUMN

INSIDE OF WALL

BEND CONDUIT TO EXTEND 6"
FOOTING ON INSIDE OF WALL-L
OF CONDUIT DEPENDENT UPON
FOOTING

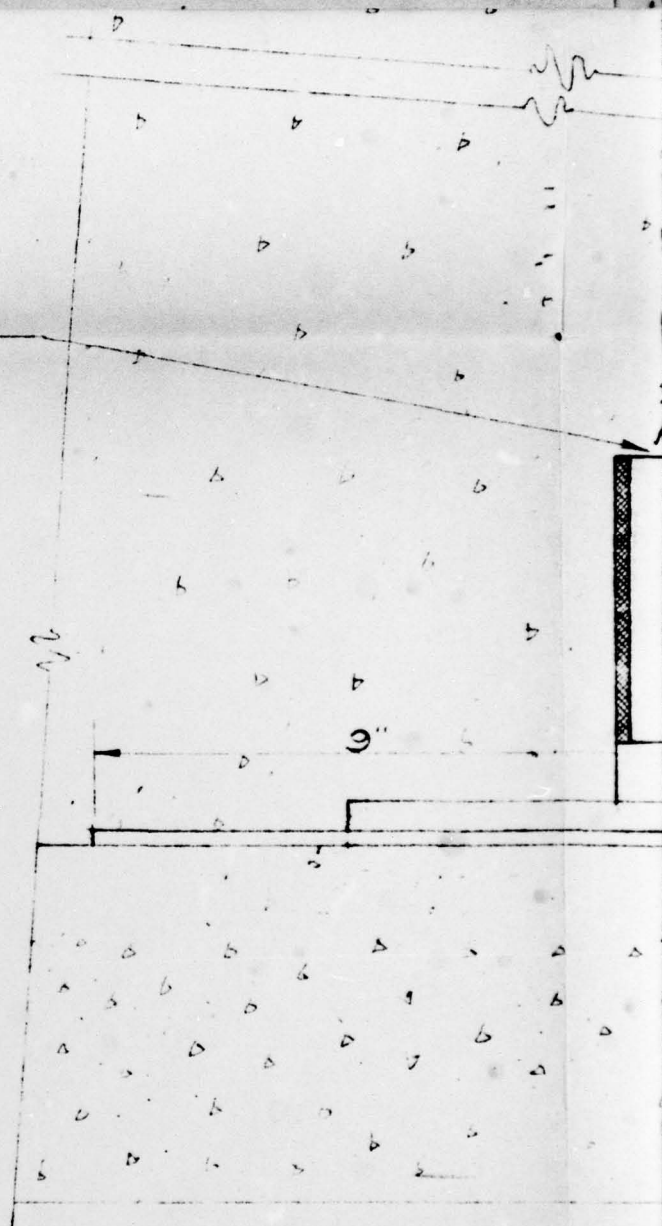
2

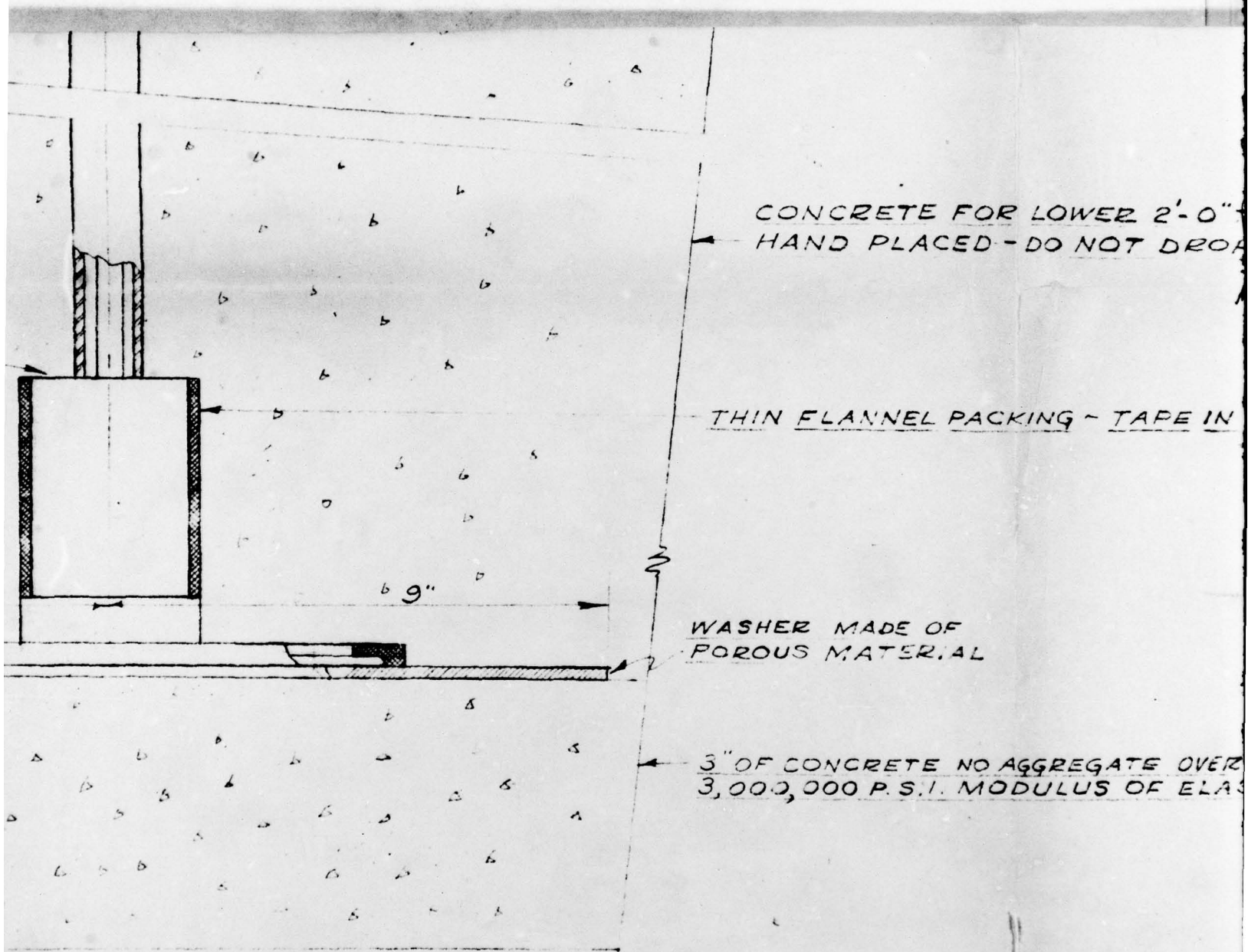
PAGE 129

XTEND 6" ABOVE
F WALL-LENGTH
ENT UPON DEPTH OF

3

APPLY PRESSURE ON TOP OF GAGE
WHILE CONCRETE IS BEING POURED





5

FIG. A2.98

2'-0" TO BE
NOT DROP

TAPE IN PLACE

ATE OVER $\frac{3}{8}$ "
OF ELASTICITY

~~RESTRICTED~~
UNCLASSIFIED

REVISIONS			HOLMES & NARVER INCORPORATED ENGINEERS 824 S. FIGUEROA ST. LOS ANGELES	
NO.	DATE	DESCRIPTION	<u>MOUNT</u> <u>FOR</u> <u>FOOTING PRESSURE</u> <u>GAUGE</u>	
1		AS BUILT AS SHOWN		
			DR. G.P. CH. D.N. DATE 5/14/51 SHEET NO. 5018	
			JOB NO. 840F APPROVED [Signature]	

6

~~RESTRICTED~~
~~CANCELED~~

UNCLASSIFIED

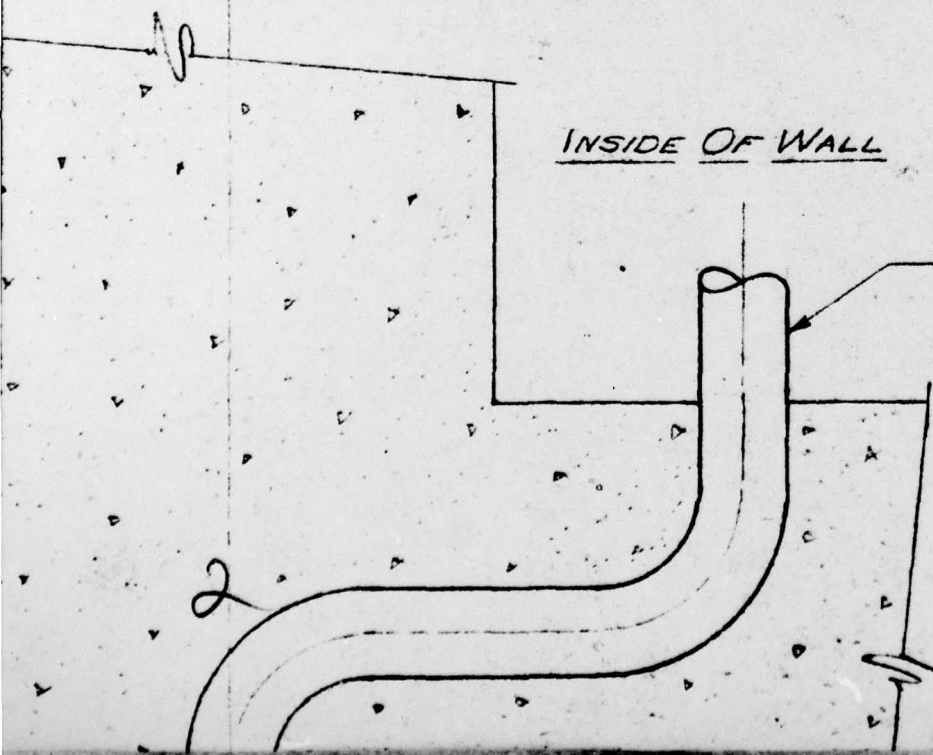
OUTSIDE OF WALL

Q OF WALL OR COLUMN

INSIDE OF WALL

BEND CONDUIT TO EXTEND 6" AB
FOOTING ON INSIDE OF WALL - LENG
CONDUIT DEPENDENT UPON DEPT
FOOTING

2



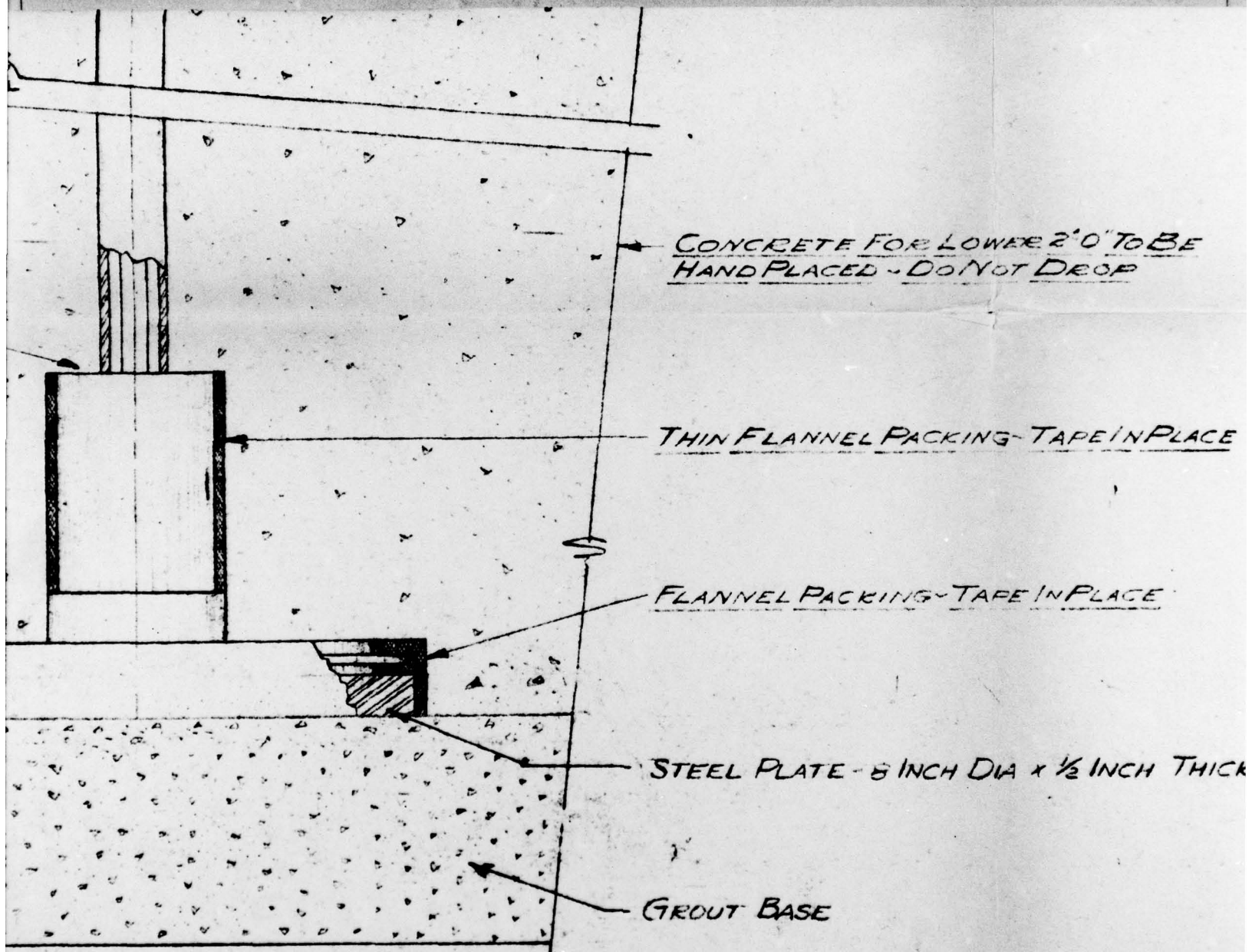
PAGE 130

XTEND 6" ABOVE
WALL - LENGTH OF
IPON DEPTH OF

3

APPLY PRESSURE ON TOP OF GAUGE
WHILE CONCRETE IS BEING POURED

4



5

FIG. A2.99

TO BE
P

IN PLACE

CE

CH THICK

UNCLASSIFIED

~~RESTRICTED~~
~~CANCELED~~
~~CANCELED~~

FOR POURED IN PLACE FOOTINGS

6

REVISIONS			HOLMES & NARVER INCORPORATED ENGINEERS 824 S. FIGUEROA ST. LOS ANGELES	
NO.	DATE	DESCRIPTION		
1	3/23/51	CORRECTED NOTATIONS	<u>MOUNT</u> <u>FOR</u> <u>FOOTING PRESSURE</u> <u>GAUGE</u>	
	5/16/51	AS BUILT AS SHOWN		
			DR. T. J. HERR	CH. LV. DATE 4-5-50
			JOB NO. 390F	APPROVED SHEET NO. 5019